

**PRODUCT INFORMATION**

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clone ID</b>                         | DM73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Target</b>                           | Mesothelin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>                         | MSLN; Mesothelin; MPF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Host Species</b>                     | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>                      | Anti-mesothelin antibody(DM73); Rabbit mAb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Delivery</b>                         | In Stock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Uniprot ID</b>                       | Q13421                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>IgG type</b>                         | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Clonality</b>                        | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Reactivity</b>                       | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>                     | ELISA; Flow Cyt; WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Recommended Dilutions</b>            | ELISA 1:5000-10000; Flow Cyt 1:100; WB 1:1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purification</b>                     | Purified from cell culture supernatant by affinity chromatography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Formulation &amp; Reconstitution</b> | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage&amp;Shipping</b>             | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Background</b>                       | This gene encodes a preproprotein that is proteolytically processed to generate two protein products; megakaryocyte potentiating factor and mesothelin. Megakaryocyte potentiating factor functions as a cytokine that can stimulate colony formation of bone marrow megakaryocytes. Mesothelin is a glycosylphosphatidylinositol-anchored cell-surface protein that may function as a cell adhesion protein. This protein is overexpressed in epithelial mesotheliomas; ovarian cancers and in specific squamous cell carcinomas. Alternative splicing results in multiple transcript variants; at least one of which encodes an isoform that is proteolytically processed. |
| <b>Usage</b>                            | Research use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Conjugate</b>                        | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>DIMA Disclaimer</b>                  | All DIMA recombinant antibodies are genuinely generated by DIMA Biotech. They are all under patent application. Any protein sequencing or reverse engineering attempt is prohibited. We are actively scr                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



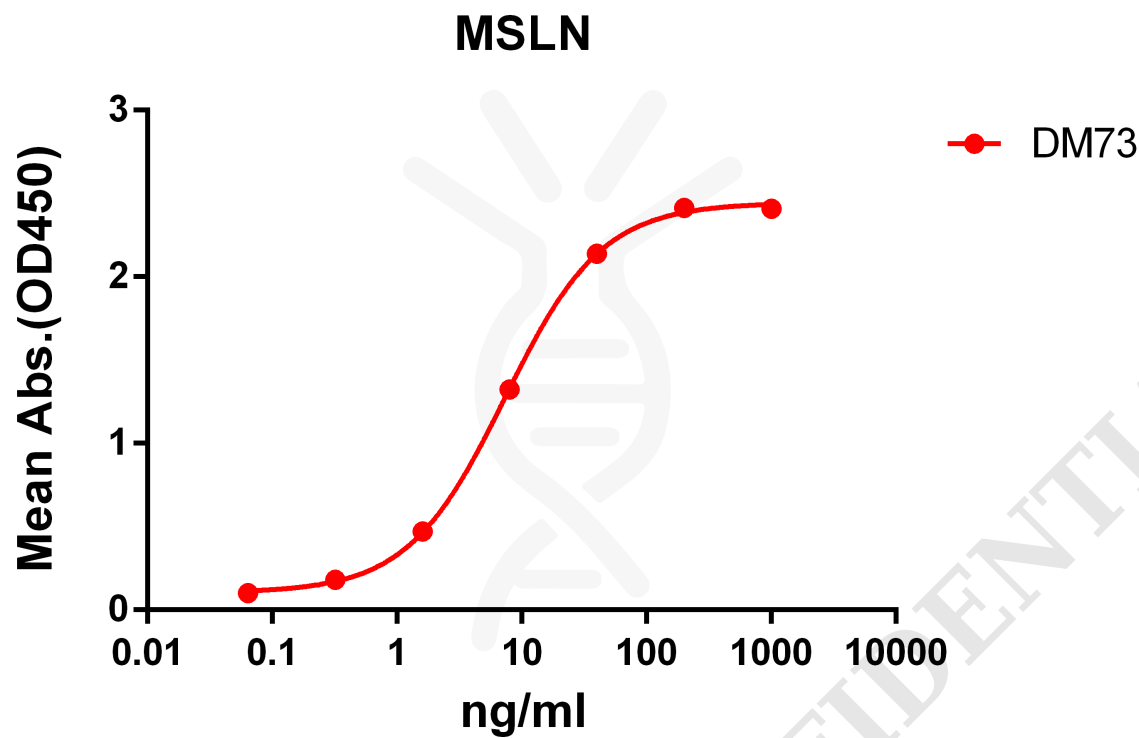


Figure 1. ELISA plate pre-coated by 2  $\mu\text{g/ml}$  (100  $\mu\text{l/well}$ ) Human MSLN protein, mFc-His tagged protein PME100031 can bind Rabbit anti-MSLN monoclonal antibody ( clone: DM73) in a linear range of 1-100 ng/ml.

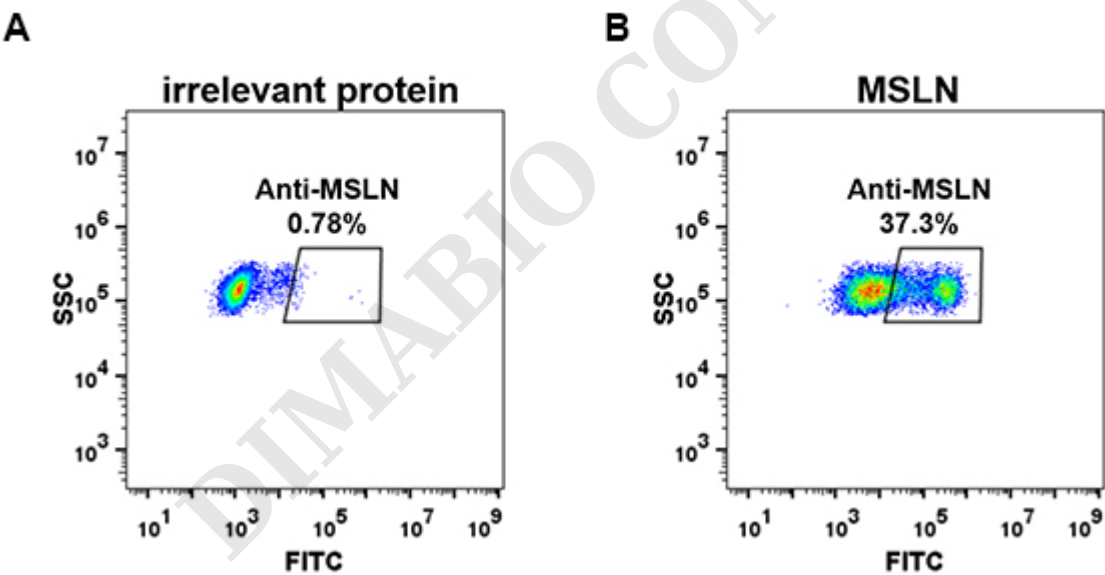


Figure 2. HEK293 cell line transfected with irrelevant protein (A) and human mesothelin (B) were surface stained with Rabbit anti-MSLN monoclonal antibody 1 $\mu\text{g/ml}$  ( clone: DM73) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.



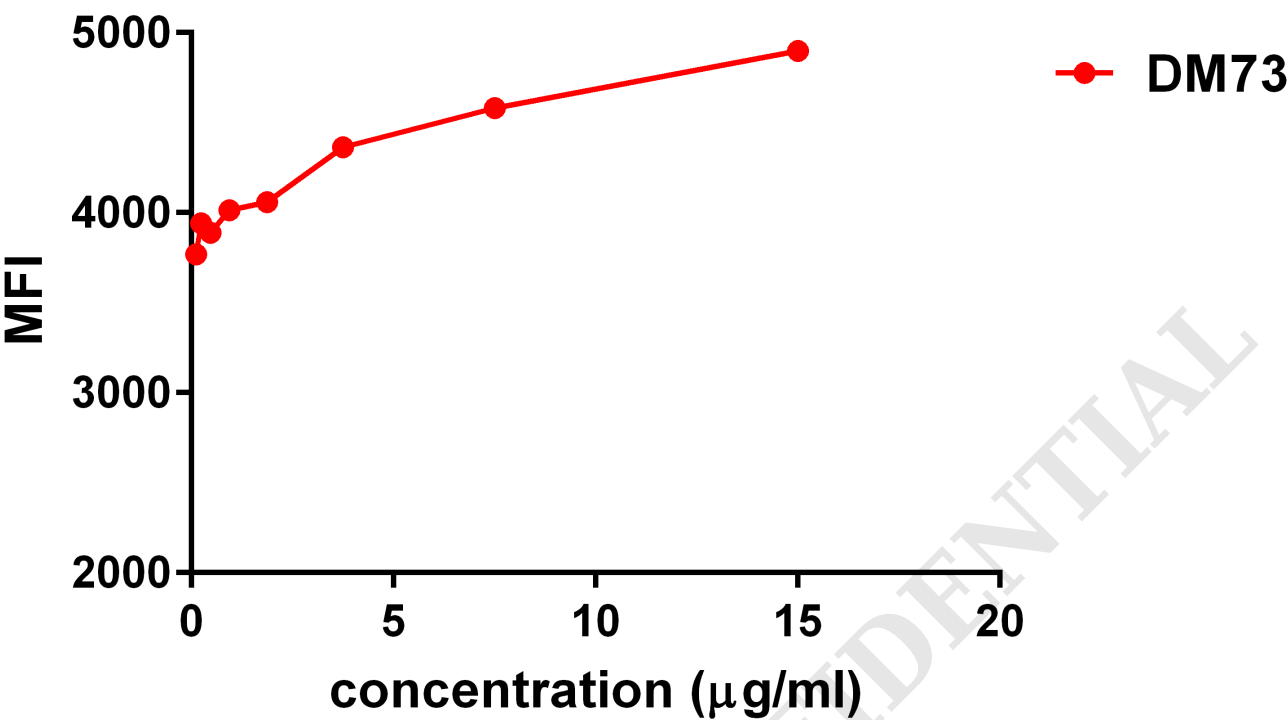


Figure 3. Flow cytometry data of serially titrated Rabbit anti-MSLN monoclonal antibody ( clone: DM73) on Hela cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

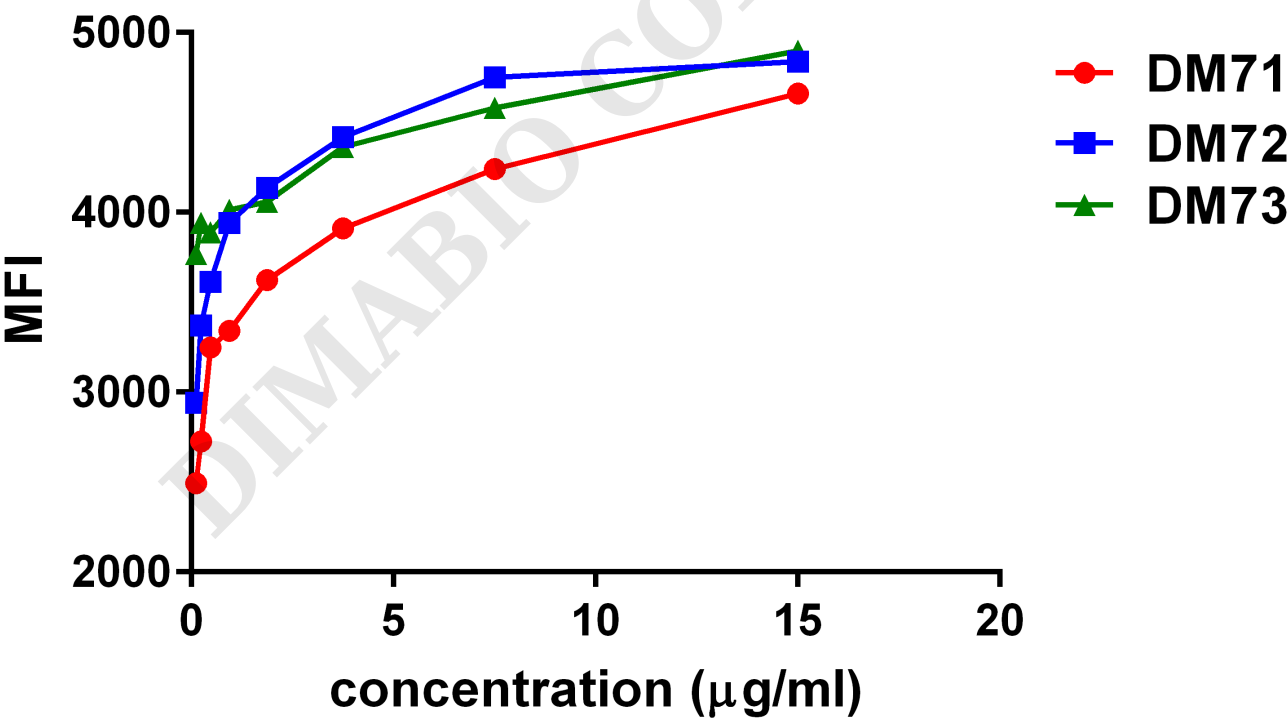


Figure 4. Affinity ranking of different Rabbit anti-MSLN mAb clones by titration of different concentration onto Hela cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.



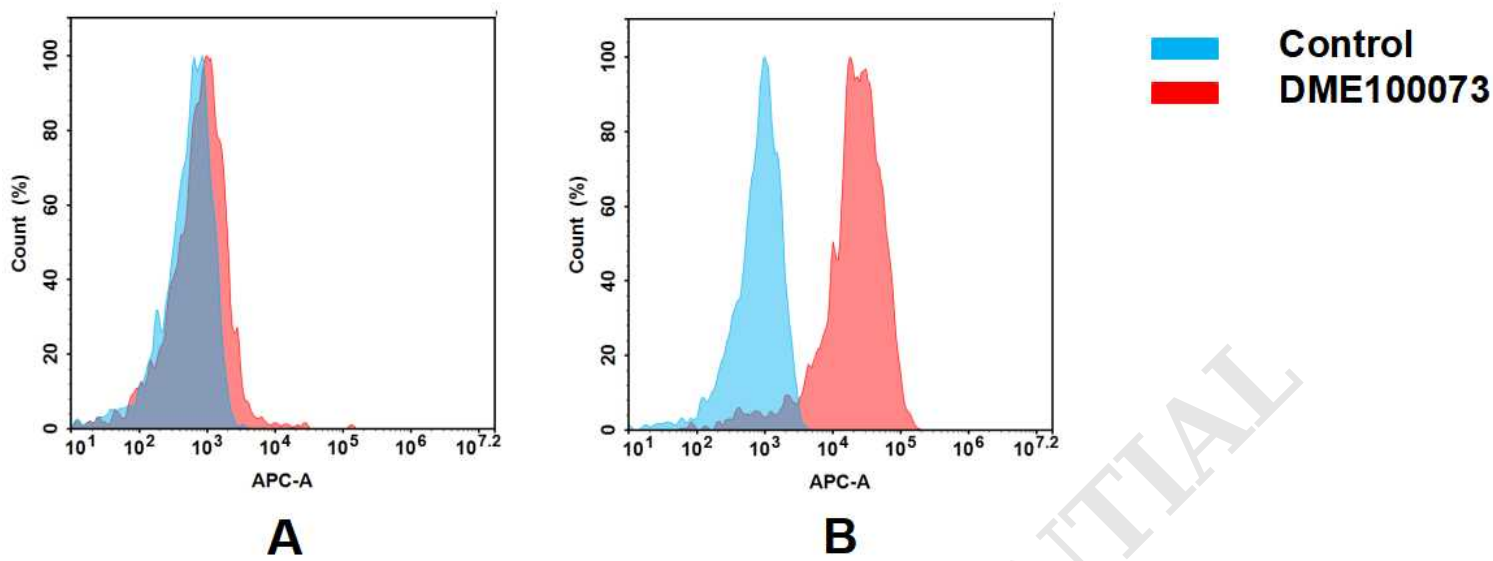
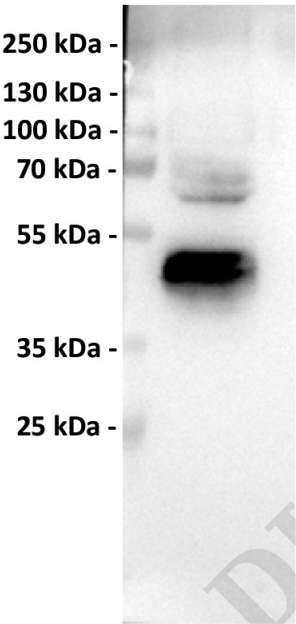


Figure 5. Flow cytometry analysis of antigen binding of rabbit anti-human Mesothelin mAb(DME100073).

(A) DME100073 does not bind to 293T cells that do not express Mesothelin.  
(B) A clear peak shift of DME100073 was seen compared to the control when incubated with Mesothelin-expressing Hela cells, indicating strong binding of DME100073 to Mesothelin. Antibodies were incubated at 2 µg/mL.

Hela



**MSLN-DM73**

Figure 6. Anti-MSLN antibody (SKU# DME100073) at 1/1000 dilution

Lane : HeLa (human cervical adenocarcinoma epithelial cell), whole cell lysate

Secondary : Goat Anti-Rabbit IgG H&L (HRP) at 1/5000 dilution

Predicted band size: 69 kDa  
Observed band size: 50 kDa

