

PRODUCT INFORMATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tag                          | C-Flag Tag                                                                                                                                                                                                                                                                                                                                                                                    |
| Target                       | MLC1                                                                                                                                                                                                                                                                                                                                                                                          |
| Synonyms                     | LVM; MLC; VL                                                                                                                                                                                                                                                                                                                                                                                  |
| Description                  | Human MLC1 full length protein-MNP                                                                                                                                                                                                                                                                                                                                                            |
| Delivery                     | In Stock                                                                                                                                                                                                                                                                                                                                                                                      |
| Uniprot ID                   | Q15049                                                                                                                                                                                                                                                                                                                                                                                        |
| Expression Host              | HEK293                                                                                                                                                                                                                                                                                                                                                                                        |
| Protein Families             | Ion Channels: Other, Transmembrane                                                                                                                                                                                                                                                                                                                                                            |
| Protein Pathways             | N/A                                                                                                                                                                                                                                                                                                                                                                                           |
| Molecular Weight             | The human full length MLC1 protein has a MW of 41.2 kDa                                                                                                                                                                                                                                                                                                                                       |
| Formulation & Reconstitution | Lyophilized from PBS. Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.                                                                                                                                                                                                                                 |
| Storage&Shipping             | 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.                                                                                                                                           |
| Background                   | The function of this protein is unknown; however, homology to other proteins suggests that it may be an integral membrane transporter. Mutations in this gene have been associated with megalencephalic leukoencephalopathy with subcortical cysts, an autosomal recessive neurological disorder. Alternatively spliced transcript variants encoding different isoforms have been identified. |
| Usage                        | Research use only                                                                                                                                                                                                                                                                                                                                                                             |
| Conjugate                    | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                  |



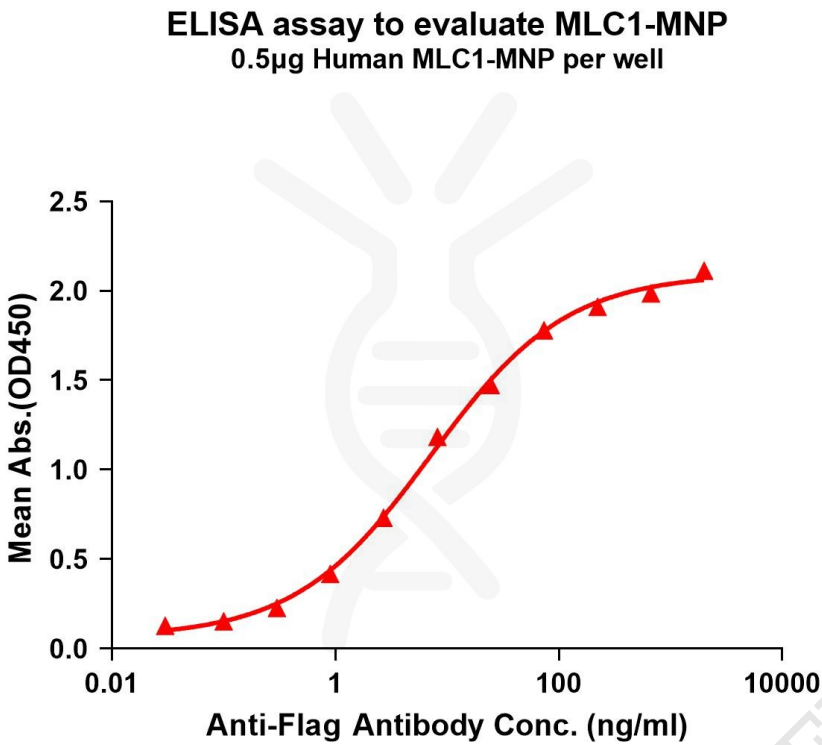


Figure 1. Elisa plates were pre-coated with 0.5µg/per well purified human MLC1 full length membrane nanoparticles. Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with MLC1 full length membrane nanoparticles is 7.148ng/ml.

