

## PRODUCT INFORMATION

<b>Target</b>	IL31
<b>Synonyms</b>	IL-31
<b>Description</b>	Recombinant human IL31 Protein with C-terminal 10×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q6EBC2
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-10×His tag
<b>Molecular Characterization</b>	IL31(Ser24-Thr164) 10×His tag
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 17.2 kDa after removal of the signal peptide.
<b>Purity</b>	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
<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>	IL31, which is made principally by activated Th2-type T cells, interacts with a heterodimeric receptor consisting of IL31RA (MIM 609510) and OSMR (MIM 601743) that is constitutively expressed on epithelial cells and keratinocytes. IL31 may be involved in the promotion of allergic skin disorders and in regulating other allergic diseases, such as asthma (Dillon et al., 2004 [PubMed 15184896]).[supplied by OMIM, Mar 2008]
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



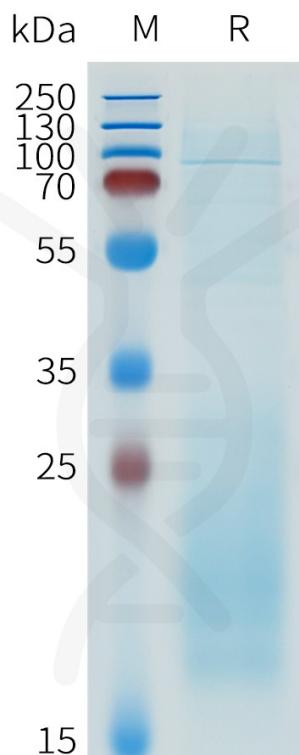
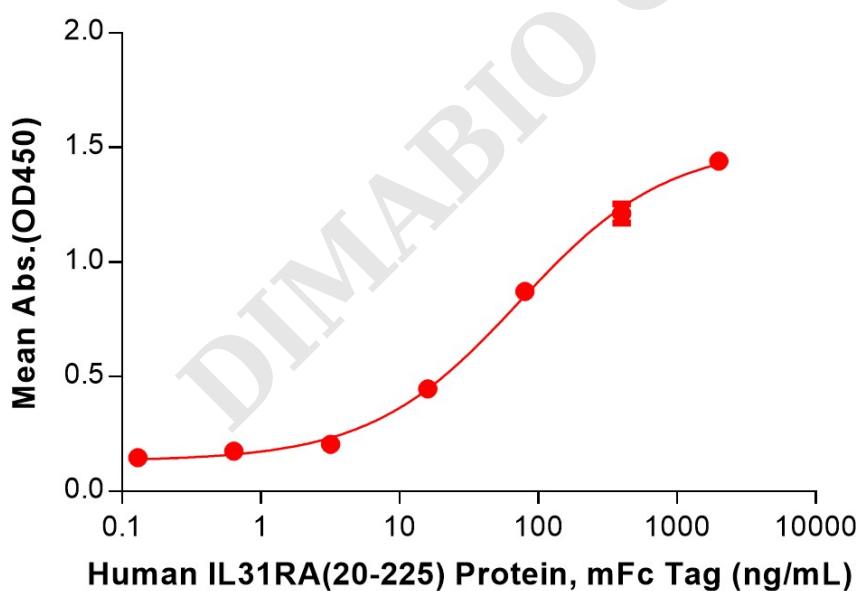


Figure 1. Human IL31 Protein, His Tag on SDS-PAGE under reducing condition.

### Human IL31, His Tagged protein ELISA

0.2  $\mu$ g of Human IL31, His tagged protein per well

Figure 2. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human IL31 Protein, His Tag (PME101593) can bind Human IL31RA(20-225) Protein, mFc Tag (PME101700) in a linear range of 3.20-400 ng/mL.

## Human IL31, His tagged protein ELISA

1 $\mu$ g of Human IL31, His tagged protein per well

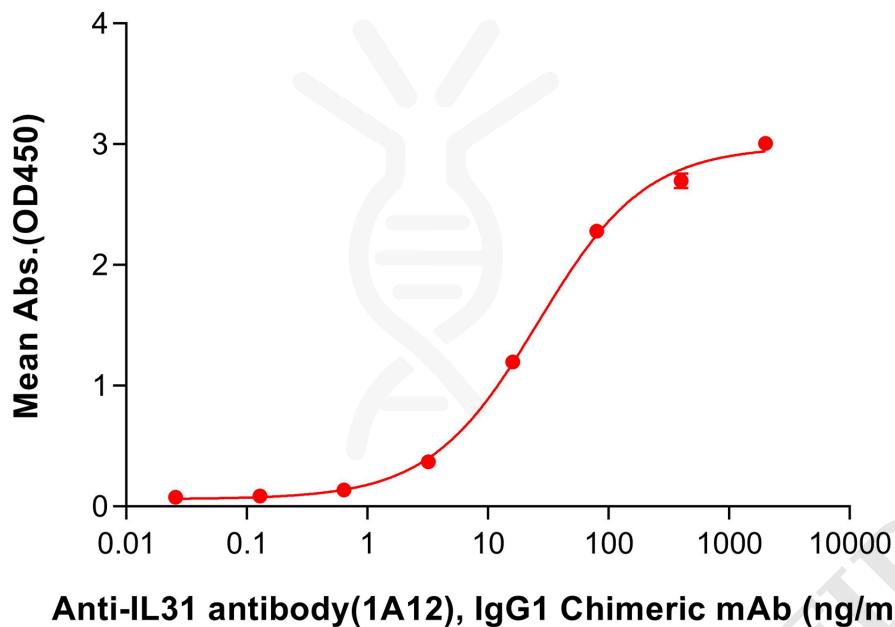


Figure 3. ELISA plate pre-coated by 1  $\mu$ g/mL (100  $\mu$ L/well) Human IL31 Protein, His Tag (PME101593) can bind Anti-IL31 antibody(1A12), IgG1 Chimeric mAb (DMC101687) in a linear range of 16-80 ng/mL.

