

## PRODUCT INFORMATION

<b>Target</b>	GPNMB
<b>Synonyms</b>	HGFIN;NMB;PLCA3
<b>Description</b>	Recombinant Human GPNMB Protein with C-terminal 6×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q14956
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-6×His Tag
<b>Molecular Characterization</b>	GPNMB(Lys23-Met496) 6×His tag
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 53.9 kDa after removal of the signal peptide. The apparent molecular mass of GPNMB-His is approximately 70-130 kDa due to glycosylation.
<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>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Background</b>	The protein encoded by this gene is a type I transmembrane glycoprotein which shows homology to the pMEL17 precursor, a melanocyte-specific protein. GPNMB shows expression in the lowly metastatic human melanoma cell lines and xenografts but does not show expression in the highly metastatic cell lines. GPNMB may be involved in growth delay and reduction of metastatic potential. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



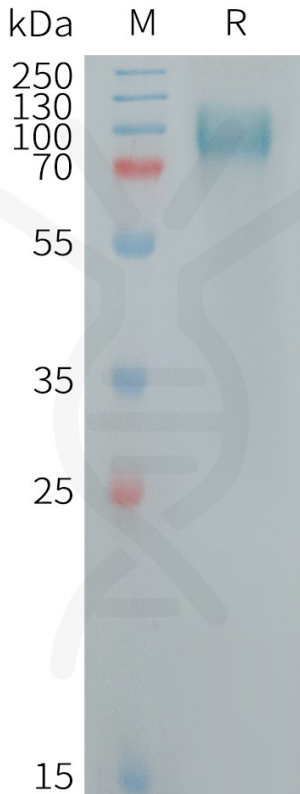


Figure 1. Human GPNMB Protein, His Tag on SDS-PAGE under reducing condition.

### Human GPNMB, His Tagged protein ELISA

0.2 µg of Human GPNMB, His tagged protein per well

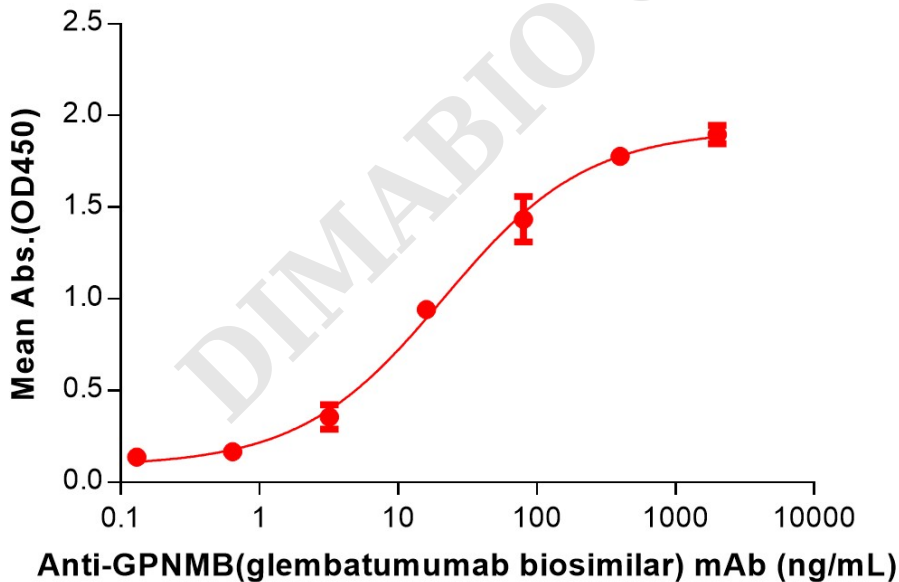
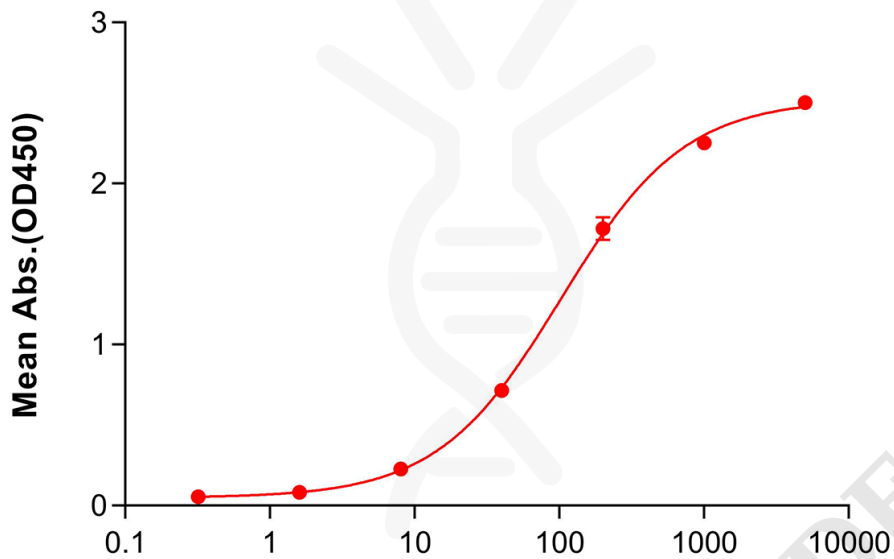


Figure 2. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human GPNMB Protein, His Tag (PME101255) can bind Anti-GPNMB(glebatumumab biosimilar) mAb (BME100194) in a linear range of 3.20–80 ng/mL.



## Human GPNMB, His Tagged Protein ELISA

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



### Biotinylated Anti-GPNMB(glembatumumab biosimilar) mAb (ng/mL)

Figure 3. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human GPNMB Protein, His Tag (PME101255) can bind Biotinylated Anti-GPNMB(glembatumumab biosimilar) mAb (BME100194B) in a linear range of 40-200 ng/mL. In order to specifically detect BME100194B, HRP Conjugated-Streptavidin was used as detection antibody.

