

Human GPNMB Protein; His Tag

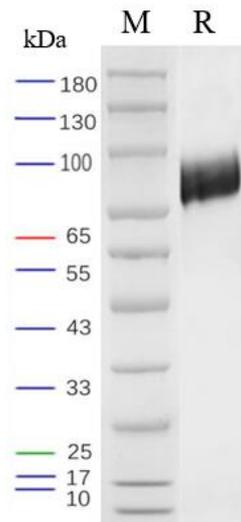
Product Information

Product Name	Human GPNMB Protein; His Tag
Storage temp.	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-87633RP-100 / 100 μg GM-87633RP-1000 / 1 mg

Protein Information

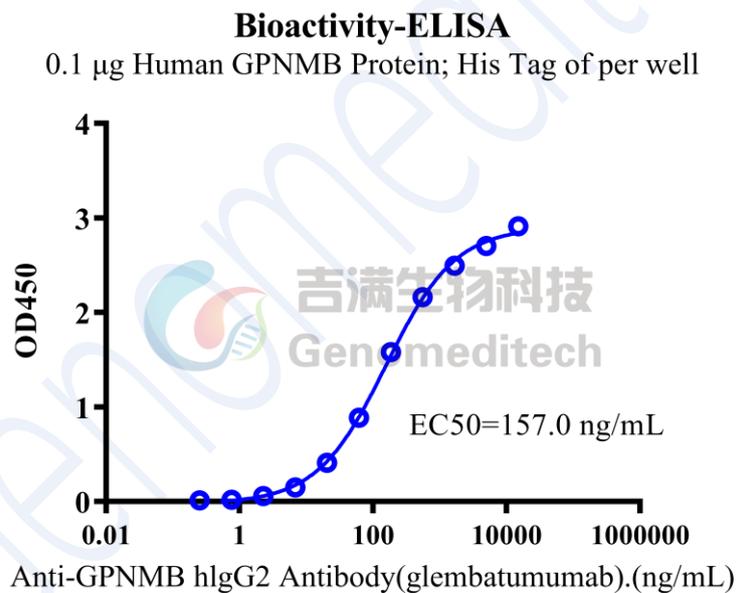
Alternative Names	GPNMB,HGFIN,NMB,Osteoactivin
Source	Human GPNMB Protein; His Tag (GM-87633RP) is expressed from human 293 cells (HEK-293). It contains AA Ala 22 - Pro 486 (Accession # AAH32783). This protein carries a His tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	51.9 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.4.
Description	<p>GPNMB (Glycoprotein Nonmetastatic B) is a transmembrane glycoprotein encoded by the human gene GPNMB, belonging to the immunoglobulin superfamily. Below is a detailed introduction to the GPNMB protein.</p> <p>GPNMB is involved in interactions between cells, promoting cell adhesion and migration, which is particularly important in embryonic development and tissue repair. As a cell surface antigen, GPNMB plays a crucial role in regulating immune responses. It can influence macrophage polarization and modulate inflammatory responses. GPNMB has been found to be highly expressed in various cancers, such as melanoma, breast cancer, and lung cancer. Research indicates that it may contribute to tumor progression by promoting the survival, proliferation, and metastasis of tumor cells.</p> <p>Research on the GPNMB protein is ongoing, with the scientific community exploring its roles in various biological processes and its potential as a therapeutic target for diseases. Moreover, advancements in technology (such as single-cell RNA sequencing and high-throughput screening) provide new opportunities for a deeper understanding of GPNMB's functions and regulation.</p>

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human GPNMB Protein; His Tag (Catalog # GM-87633RP) was immobilized at 1 μ g/ml (100 μ L/well). Increasing concentrations of Anti-GPNMB hlgG2 Antibody(glembatumumab) (Catalog # GM-87688AB) were added.