

Recombinant Mouse glycoprotein (transmembrane) nmb Protein, mIgG2a tagged

Cat. No. Gpnmb-08M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Osteoactivin/GPNMB Protein (Lys23 - Asn502) with mouse IgG2A (Glu98 - Lys330) Fc tag at C-terminus was expressed in Mouse myeloma cell line.
Species	Mouse
Source	NS0
ProteinLength	23-502aa
Description	Enables heparin binding activity and integrin binding activity. Involved in several processes, including negative regulation of tumor necrosis factor production; positive regulation of ERK1 and ERK2 cascade; and positive regulation of protein phosphorylation. Acts upstream of or within cell adhesion. Located in cytoplasmic vesicle. Is integral component of plasma membrane. Is expressed in several structures, including alimentary system; brain; eye; heart ventricle; and mesenchyme derived from neural crest. Used to study pigment dispersion syndrome. Human ortholog(s) of this gene implicated in primary localized cutaneous amyloidosis 3. Orthologous to human GPNMB (glycoprotein nmb).
Tag	C-mIgG2a
Form	Disulfide-linked homodimer

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Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of SVEC4-10 mouse vascular endothelial cells. When 0.25 µg/mL (100 µL/well) of rmOsteoactivin/Fc Chimera is immobilized on goat anti-mouse Fc Chimera antibody coated wells, it will support > 30% adhesion of added SVEC4-10 cells (1×10 ⁵ cells/well).
Molecular Mass	80.3 kDa
Endotoxin	< 0.1 EU/µg of the protein by the LAL method.
Purity	> 90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
N-terminal Sequence Analysis	Lys23
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.

GENE INFORMATION

Gene Name	Gpnmb glycoprotein (transmembrane) nmb [<i>Mus musculus</i> (house mouse)]
Official Symbol	Gpnmb

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Synonyms	GPNMB; glycoprotein (transmembrane) nmb; transmembrane glycoprotein NMB; osteoactivin; iris pigment dispersion; dendritic cell-associated transmembrane protein; dendritic cell-associated heparin sulfate proteoglycan-dependent integrin ligand; ipd; Dchil; DC-HIL
Gene ID	93695
mRNA Refseq	NM_053110
Protein Refseq	NP_444340
UniProt ID	Q99P91

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