Recombinant Human Osteoactivin/GPNMB Protein

Catalog No.: RP01390

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Sequence Information

Species
Human

Gene ID
10457

Swiss Prot
Q14956-2

Tags
C-His

Synonyms
GPNMB,HGFIN,NMB

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
54.02 kDa

Observed MW
70-100 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Transmembrane glycoprotein NMB (GPNMB) is also known as Transmembrane glycoprotein HGFIN, DC-HIL and Osteoactivin (OA), which belongs to the PMEL/NMB family. GPNMB contains one PKD domain.GPNMB protein acts as a downstream mediator of BMP-2 effects on osteoblast differentiation and function. GPNMB participates in bone mineralization and functions as a negative regulator of inflammation in macrophages. Osteoactivin is expressed at high levels in normal and inflammatory liver macrophages suggesting a significant role in acute liver injury. The early-phase upregulation of Osteoactivin expression in the tubular epithelium in response to renal injury might play a role in triggering renal interstitial fibrosis via activation of matrix metalloproteinase expression and collagen remodeling in rats. Osteoactivin is a protein that is expressed in aggressive human breast cancers and is capable of promoting breast cancer metastasis to bone.

Basic Information

Description
Recombinant Human Osteoactivin/GPNMB Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Pro474) of human Osteoactivin/GPNMB (Accession #NP_002501.1) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Human GPNMB Protein at 1 μg/mL (100 μL/well) can bind GPNMB Rabbit pAb with a linear range of 0.976-116.5 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

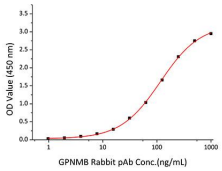
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

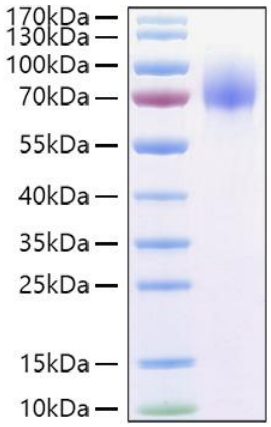
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Validation Data



Immobilized recombinant Human GPNMB Protein at 1μg/mL (100 μL/well) can bind GPNMB Rabbit pAb with a linear range of 0.976-116.5ng/mL.



Recombinant Human Osteoactivin/GPNMB Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.