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Human CellExp Osteoactivin / GPNMB, human recombinant protein

GPNMB, HGFIN, NMB, Osteoactivin
Catalog # PBV11132r

Specification

Human CellExp Osteoactivin / GPNMB, human recombinant protein - Product info

Primary Accession	Q96F58
Calculated MW	**This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 52.9 kDa. The predicted N-terminus is Ala 22. DTT-reduced Protein migrates as 85-100 kDa due to glycosylation. KDa**

Human CellExp Osteoactivin / GPNMB, human recombinant protein - Additional Info

Gene ID	**10457**
Gene Symbol	**GPNMB**

Other Names
GPNMB, HGFIN, NMB, Osteoactivin

Gene Source	**Human**
Source	**HEK293 cells**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**N/A;**
Recombinant	**Yes**
Results	**ED50 for this effect is typically 4 - 16 µg/ml**

Target/Specificity
Osteoactivin / GPNMB

Application Notes
Centrifuge the vial prior to opening. Reconstitute in PBS, pH 7.4. Do not vortex.

Format
Lyophilized

Storage
-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH 7.5. Normally Mannitol or Trehalose are added as protectants before lyophilization.

Human CellExp Osteoactivin / GPNMB, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Human CellExp Osteoactivin / GPNMB, human recombinant protein - Images

Human CellExp Osteoactivin / GPNMB, human recombinant protein - 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 is a transmembrane glycoprotein that is up-regulated in various cancer cells, including in glioblastoma multiforme and is expressed in many melanoma cells, as well as in tissue macrophages. 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.