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Datasheet for ABIN7535384

Osteoactivin Protein (GPNMB) (His tag)

Overview

Quantity:	100 µg
Target:	Osteoactivin (GPNMB)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Osteoactivin protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Osteoactivin/GPNMB Protein
Sequence:	MECLYYFLGF LLLAARLPLD AAKRFHDVLG NERPSAYMRE HNQLNGWSSD ENDWNEKLYP VWKRGD MRWK NSWKGG RVQA VLTSDSPALV GSNITFAVNL IFPRCQKEDA NGNIVYEKNC RNEAGLSADP YVYNWTAWSE DSDGENGTGQ SHHNVFPDGG PFPHPGWRR WNFYVFHTL GQYFQKLGRC SVRVSVNTAN VTLGPQLMEV TVYRRHGRAY VPAAQVKDVY VVTDQIPVFV TMFQKNDRNS SDETFLKDLP IMFDVLIHDP SHFLNYSTIN YKWSFGDNTG LRVSTNHTVN HTYVLNGTFS LNLTVKAAAP GPCPPPPPPP RPSKPTPSLG PAGDNPLELS RIPDENCQIN RYGHFQATIT IVEGILEVNI IQMTDVLMPV PWPESSLIDF VVTCQGS IPT EVCTIISDPT CEITQNTVCS PVDVDEMCLL TVRRTFNGSG TYCVNLT LGD DTSLALTSTL ISVP
Specificity:	Met1-Pro474
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level:	<0.1EU/ μ g
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human GPNMB Protein at 1 μ g/mL (100 μ L/well) can bind GPNMB Rabbit pAb with a linear range of 0.976-116.5 ng/mL.

Target Details

Target:	Osteoactivin (GPNMB)
Alternative Name:	Osteoactivin/GPNMB (GPNMB Products)
Background:	<p>Description: 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.</p> <p>Name: GPNMB,HGFIN,NMB</p>
Gene ID:	10457
UniProt:	Q14956-2

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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 stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4.

Handling

Storage: -20 °C,-80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.