Datasheet for ABIN7317588

Osteoactivin Protein (GPNMB) (Fc Tag)

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Overview

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

Product Details

Purpose:	Recombinant Human GPNMB Protein (Fc Tag)
Sequence:	Met 1-Pro474
Characteristics:	A DNA sequence encoding the human GPNMB (Q14956-2) (Met1-Pro474) was expressed with the Fc region of human IgG1 at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Osteoactivin (GPNMB)
Alternative Name:	GPNMB (GPNMB Products)
Background:	Background: GPNMB belongs to the PMEL / NMB family, also known as Osteoactivin and Hematopoietic growth factor-inducible neurokinin 1 (HGFIN), is a transmembrane glycoprotein that is expressed in numerous cells, including osteoclasts, macrophages, dendritic cells, and

Target Details

	tumor cells. It is suggested to influence osteoblast maturation, cell adhesion and migration. 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 as a protein that is expressed in aggressive human breast cancers and is capable of promoting breast cancer metastasis to bone. Synonym: Transmembrane Glycoprotein NMB, Transmembrane Glycoprotein HGFIN, GPNMB, HGFIN,NMB,Osteoactivin
Molecular Weight:	77.8 kDa

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.