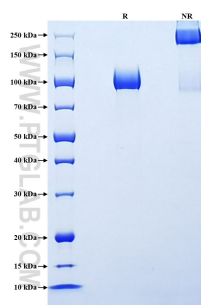


Recombinant Human GPNMB protein (rFc Tag)

Catalog Number: Eg2883

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/ µg protein, LAL method Source: HEK293-derived Human GPNMB protein Ala22-Pro486 (Accession# Q14956-1) with a rabbit IgG Fc tag at the C-terminus. GeneID: 10457 Accession: Q14956-1 Predicted Molecular Mass: 78.1 kDa SDS-PAGE: 90-120 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	GPNMB (Glycoprotein non-metastatic melanoma protein B), also known as osteoactivin, is a type I transmembrane glycoprotein that plays a role in various physiological processes including cell differentiation, migration, inflammation, metabolism, and neuroprotection. It is expressed in multiple tissues such as bone, kidney, and skeletal muscle, and is implicated in cell processes like tissue regeneration and tumor progression. GPNMB has also been identified within motor neurons and radial glia, most abundantly in microglia cells, suggesting its role in inflammatory processes in the central nervous system. Its role in inflammation and tissue regeneration makes it a potential therapeutic target in diseases like atherosclerosis.		
References	1.Tsou PS. et al. (2020). FASEB J. 34(7):8810-8823. 2.Hüttenrauch M. et al. (2018). Acta Neuropathol Commun. 6(1):108. 3.Yu X. et al. (2024). Biochem Biophys Res Commun. 732:150386.		
Synonyms	GPNMB, Hematopoietic growth factor inducible neurokinin-1 type, NMB, Osteoactivin, Transmembrane glycoprotein NMB		

Selected Validation Data



Purity of Recombinant Human GPNMB was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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