



Anti-GPNMB polyclonal antibody [Biotin] (DPABY-582)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Osteoactivin, also known as transmembrane glycoprotein NMB (GPNMB) and dendritic cell-associated transmembrane protein (DC-HIL), is a type I transmembrane glycoprotein that is found either on the plasma membrane or on membranes of the endosome/lysosome compartment. The extracellular region of Osteoactivin contains a heparin-binding motif and an integrin recognition RGD domain, while the cytoplasmic region contains an immunoreceptor tyrosine-based activation motif (ITAM) and lysosomal targeting motif.
Specificity	Detects mouse Osteoactivin/GPNMB in ELISAs and Western blots. In sandwich immunoassays, less than 0.2% cross-reactivity with recombinant human(rh)Osteoactivin, rhSyndecan-4, and recombinant mouseSyndecan-4 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Osteoactivin/GPNMB. Lys23-Asn502 Accession Number NP_444340
Isotype	IgG
Source/Host	Goat
Species Reactivity	Mouse
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg

of bovine serum albumin (BSA) per 1 µg of antibody.

Preservative	None
Storage	Lyophilized samples are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Upon reconstitution, the antibody can be stored at 2 °C to - 8 °C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20 °C to -70 °C in a manual defrost freezer for six months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Gpnmb glycoprotein (transmembrane) nmb [Mus musculus (house mouse)]
Official Symbol	GPNMB
Synonyms	GPNMB; glycoprotein (transmembrane) nmb; ipd; Dchil; DC-HIL; transmembrane glycoprotein NMB; osteoactivin; iris pigment dispersion; dendritic cell-associated transmembrane protein; dendritic cell-associated heparin sulfate proteoglycan-dependent integrin
Entrez Gene ID	93695
Protein Refseq	NP_444340
UniProt ID	Q99P91
Chromosome Location	6 B2.3; 6 23.82 cM
Function	heparin binding; integrin binding;