

**GPNMB, 22-474aa, Human, His-tag, Baculovirus**

**Cat.NO.: TP02319**

3th Edition

**Synonyms:**Glycoprotein nmb, GPNMB, NMB, HGFN

**Description:**GPNMB, also known as glycoprotein nmb, is a transmembrane glycoprotein that is expressed in numerous cells, including osteoclasts, macrophages, dendritic cells, and tumor cells. It shows expression in the lowly metastatic human melanoma cell lines and xenografts but does not show expression in the highly metastatic cell lines. This protein participates in bone mineralization, and functions as a negative regulator of inflammation in macrophages. It may be involved in growth delay and reduction of metastatic potential. Recombinant human GPNMB protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:**Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:**51.8kDa (462aa), 50-70KDa (SDS-PAGE under reducing conditions.)

**Sequences:**

ADPAKRFDVLDGNERPSAYMREHNQLNGWSSDENDWNEKLYPVWKRGD MRWKNWKGGRVQAVLTSDSPALV  
GSNITFAVNLIFFRCQKEDANGNIVYEKNCRNEAGLSADPYVYNWTAWSESDGENG TGQSHHNVPD GKPFP  
PGWRRWNFIYVFHTLGQYFQKLGRC SVRVSNTANVT LGPQLMEVTVYRRHGRAYVPIAQVKDVYVVT DQIPV  
TMFQKNDRNSSDETFLKDL PIMFDVLIHDP SHFLNYSTINYKWSFGDNTGLFVSTNHTVNH TYVLNGTF  
AAGPCPPPPPPRPSKPTPSLGPAGDNPLELSRIPDENCQINRYGHFQATITIVEGILEVNIIQMTDVLMPVP  
SLIDFVVTCQGSIPTEVCTIISDPTCEITQNTVCSPVDVDEMCLLTVRRTFNGSGTYCVNLT LGDDTSLALT  
STLISVPHHHHHH

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by BCA assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.