

## Active Recombinant Human GPNMB Protein, Fc-tagged, Alexa Fluor 488 conjugated

**Cat. No.** GPNMB-747HAF488    **Lot. No.** (See product label)

### SPECIFICATION

|                                     |                                                                                                                                                                                                                                                               |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Alexa Fluor 488 conjugated recombinant human GPNMB (Accession # NP_002501) was produced in Mouse myeloma cell line, NS0-derived.                                                                                                                              |
| <b>Species</b>                      | Human                                                                                                                                                                                                                                                         |
| <b>Source</b>                       | Mammalian Cells                                                                                                                                                                                                                                               |
| <b>Form</b>                         | Lyophilized                                                                                                                                                                                                                                                   |
| <b>Bio-activity</b>                 | Measured by the ability of the immobilized protein to induce pro-MMP-9 secretion by NHLF human normal lung fibroblasts. The ED50 for this effect is typically 2.5 - 10 µg/mL. Optimal dilutions should be determined by each laboratory for each application. |
| <b>Molecular Mass</b>               | Recombinant Human GPNMB, Fc Chimera has a calculated MW of 78.6 kDa (monomer). In SDS-PAGE migrates as 115-125 kDa, reducing conditions.                                                                                                                      |
| <b>N-terminal Sequence Analysis</b> | Lys 23                                                                                                                                                                                                                                                        |
| <b>Purity</b>                       | > 90 % by SDS-PAGE and analyzed by silver stain                                                                                                                                                                                                               |
| <b>Characteristic</b>               | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 488 via amines                                                                                                                                                                                         |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                |
| <b>Storage</b>        | Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4 centigrade); After reconstitution under sterile conditions for 3 months (-70 centigrade). |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 µm filtered solution in PBS.                                                                                                                                                             |
| <b>Conjugation</b>    | Alexa Fluor 488                                                                                                                                                                                                 |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GPNMB glycoprotein (transmembrane) nmb [ Homo sapiens ]                                                                                                                                                                                          |
| <b>Official Symbol</b> | GPNMB                                                                                                                                                                                                                                            |
| <b>Synonyms</b>        | GPNMB; glycoprotein (transmembrane) nmb; transmembrane glycoprotein NMB; glycoprotein NMB; glycoprotein nmb like protein; HGFIN; NMB; osteoactivin; transmembrane glycoprotein; glycoprotein nmb-like protein; transmembrane glycoprotein HGFIN; |
| <b>Gene ID</b>         | 10457                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_001005340                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_001005340                                                                                                                                                                                                                                     |
| <b>MIM</b>             | 604368                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>      | Q14956                                                                                                                                                                                                                                           |

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