

Product Datasheet

GMF-beta Antibody - BSA Free NBP1-89755

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-89755

GMF-beta Antibody - BSA Free

| Product Information | |
|-------------------------|--|
| Unit Size | 0.1 ml |
| Concentration | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.02% Sodium Azide |
| Isotype | IgG |
| Purity | Affinity purified |
| Buffer | PBS (pH 7.2) and 40% Glycerol |
| Target Molecular Weight | 17 kDa |

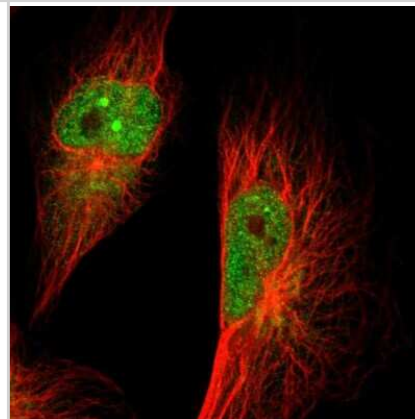
| Product Description | |
|---------------------|---|
| Description | Novus Biologicals Rabbit GMF-beta Antibody - BSA Free (NBP1-89755) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-GMF-beta Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Rabbit |
| Gene ID | 2764 |
| Gene Symbol | GMFB |
| Species | Human, Mouse, Rat |
| Reactivity Notes | Mouse reactivity reported in scientific literature (PMID: 26101216). |
| Immunogen | This antibody was developed against Recombinant Protein corresponding to amino acids: SESLVVCDVAEDLVEKLRKFRFRKETNNAIIMKIDKDKRLVVLDEELEGISPDEL KDELPERQPRFIVYSYKYQHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKN |

| Product Application Details | |
|-----------------------------|---|
| Applications | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated |
| Recommended Dilutions | Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200-1:500, Knockdown Validated |
| Application Notes | For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. |

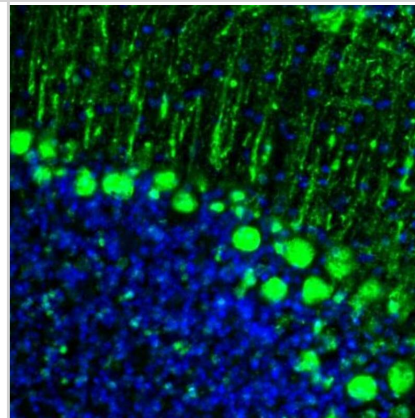


Images

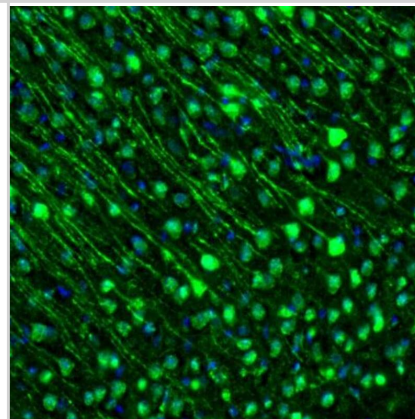
Immunocytochemistry/Immunofluorescence: GMF-beta Antibody [NBP1-89755] - Staining of human cell line U-251 MG shows localization to nucleoplasm, nuclear bodies & cytosol. Antibody staining is shown in green.



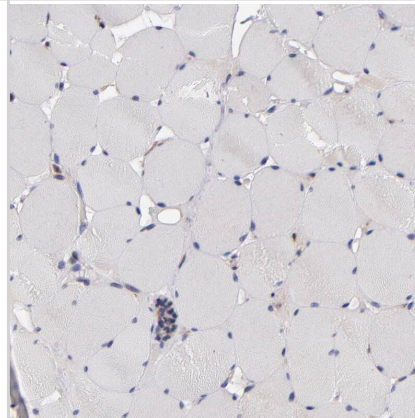
Staining of mouse cerebellum shows strong positivity in Purkinje cells.



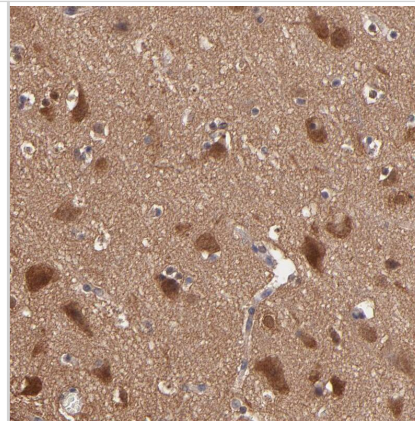
Staining of mouse brain shows strong positivity in neurons and dendrites in cerebral cortex.



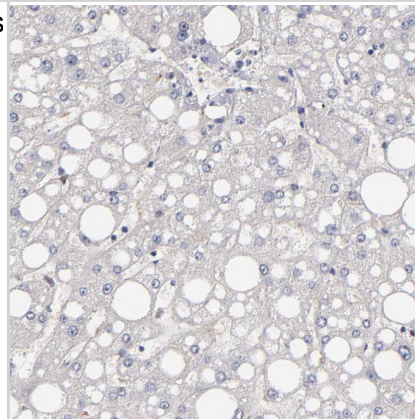
Staining of human skeletal muscle shows no cytoplasmic positivity in myocytes as expected.



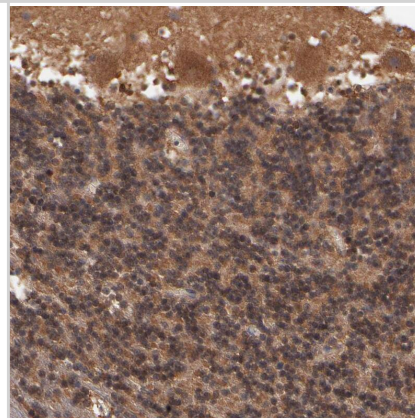
Staining of human cerebral cortex shows moderate cytoplasmic positivity in neurons.



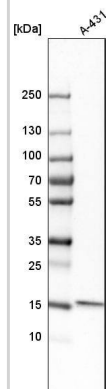
Staining of human liver shows no cytoplasmic positivity in hepatocytes as expected.



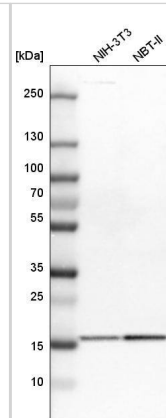
Staining of human cerebellum shows moderate cytoplasmic positivity in Purkinje cells.



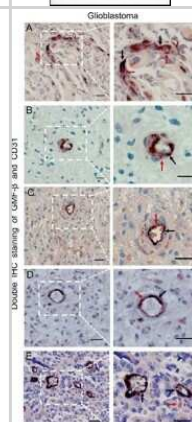
Analysis in human cell line A-431.



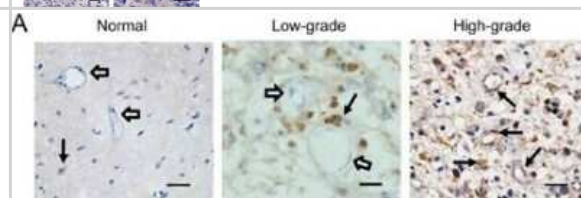
Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



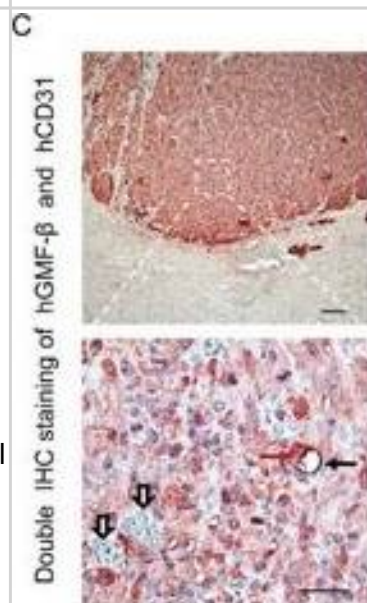
GMF-beta-Antibody-Immunocytochemistry-Immunofluorescence-NBP1-89755-img0020.jpg



GMF-beta-Antibody-Immunohistochemistry-NBP1-89755-img0019.jpg



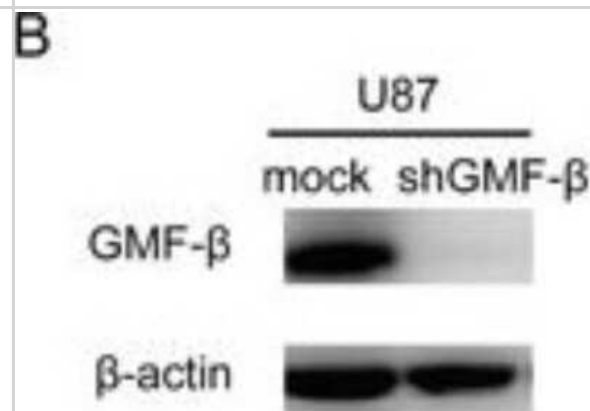
Immunohistochemistry: GMF-beta Antibody [NBP1-89755] - GMF- β knockdown suppresses tumor growth & the formation of human-CD31 positive microvessels (hCD31-MVs) in orthotopic U87 xenograft models. A. The cross-sectional appearance of xenografted gliomas from U87-mock group. B. The cross-sectional appearance of xenografted gliomas from U87-shGMF- β group. Gross tumor boundaries were delineated by white dotlines. C. A hCD31-microvessel & several hCD31-negative vessels in U87-mock tumor. D. No hCD31-MVs, only hCD31-negative vessels in U87-shGMF- β tumor. Red solid arrows indicate hGMF- β staining in tumor cells, black solid arrows show hCD31 staining on microvascular endothelia, & open arrows denote vessels negative for hCD31. Scale bar: 100 μ m in upper pannels; 50 μ m in lower pannels. E. Quantitative comparisons of gross tumor volume between U87-mock & U87-shGMF- β group. F. Quantitative comparisons of hCD31-microvessel densities (MVDs) between U87-mock & U87-shGMF- β group. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26515590>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



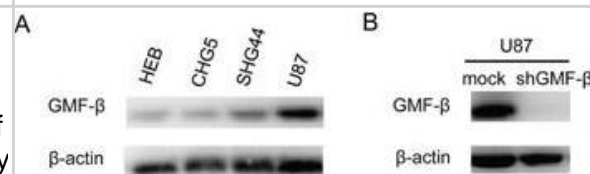
GMF-beta-Antibody-Western-Blot-NBP1-89755-img0022.jpg



GMF-beta-Antibody-Knockdown-Validated-NBP1-89755-img0021.jpg



Western Blot: GMF-beta Antibody [NBP1-89755] - Tubulogenesis of human U87 glioblastoma cells is inhibited by GMF-β knockdown. A. Protein levels of GMF-β in human glial cell line (HEB) & human glioma cell lines of the different grades (CHG5, SHG44, U87). B. Assessment of GMF-β knockdown in U87 cells by western blotting. C. Tube formation by U87 mock cells (left panel); impaired tube formation by U87-shGMF-β cells (right panel). Inspection under a phase contrast fluorescent microscope ($\times 100$). D. Quantified tubulogenesis of U87 mock cells & U87-shGMF-β cells by pattern recognition system (left panel) & branch point counting system (right panel).*** indicates significant difference with $P < 0.001$. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26515590>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Kuang XY, Jiang XF, Chen C et al. Expressions of glia maturation factor-B by tumor cells and endothelia correlate with neovascularization and poor prognosis in human glioma. *Oncotarget*. 2016-12-27 [PMID: 26515590] (IF/IHC, ICC/IF, WB, Human)

Haynes EM, Asokan SB, King SJ et al. GMF-beta controls branched actin content and lamellipodial retraction in fibroblasts. *J Cell Biol* 2015-06-22 [PMID: 26101216] (ICC/IF, Mouse)

Yu Y, Wu J, Fan Y et al. Evaluation of blastomere biopsy using a mouse model indicates the potential high risk of neurodegenerative disorders in the offspring. *Mol Cell Proteomics*. 2009-07-01 [PMID: 19279043]



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| | |
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| NBP1-89755PEP | GMF-beta Recombinant Protein Antigen |
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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