For Research Use Only

GMF Beta Polyclonal antibody

Catalog Number:10690-1-AP Featured Product 11 Publications

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Basic Information

Catalog Number:
10690-1-AP

Size:
150ul , Concentration: 300 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1104

GenBank Accession Number:
BC005359

GeneID (NCBI):
2764

UNIPROT ID:
P60983

Full Name:
glia maturation factor, beta

Calculated MW:
17 kDa

Observed MW:
17 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:50-1:500
IF-P 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF-P, FC (Intra), ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, zebrafish

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, human heart tissue, human brain tissue, PC-12 cells, mouse heart tissue, rat brain tissue, SH-SY5Y cells, U-87 MG cells

IHC : mouse brain tissue,

IF-P : mouse brain tissue,

Background Information

GMFB, Glia maturation factor beta, is a nerve growth factor implicated in nervous system development. It was reported that GMF-beta promotes the phenotypic expression of glia and neurons and inhibits the proliferation of their respective tumors in culture cells. GMF-beta protein is specific to the brain where it is expressed in glial cells (mainly astrocytes) and insome neurons. Higher levels of GMFB were found in the central nervous system, except for the spinal cord, and in thymus and colon. GMFB was positive in the cytoplasm and nuclei of all cells in whole brain.

Notable Publications

Author	Pubmed ID	Journal	Application
Miao Zhang	36175800	Int J Legal Med	WB
Wan Sun	34796110	Front Oncol	WB
Tong Zhu	35860559	Front Oncol	WB,IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1%BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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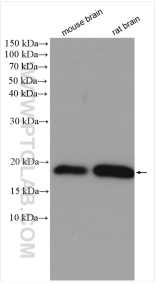
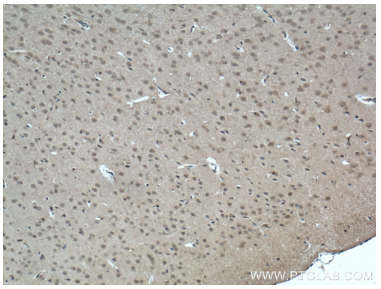
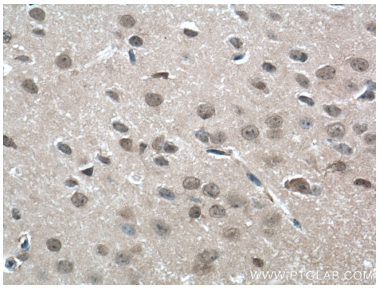
Selected Validation Data



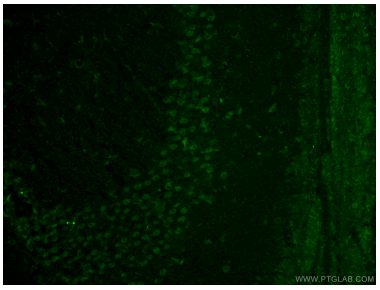
Various lysates were subjected to SDS PAGE followed by western blot with 10690-1-AP (GMF Beta antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



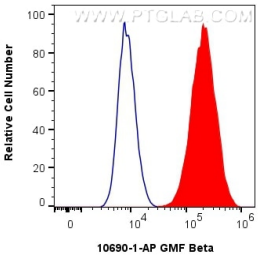
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10690-1-AP (GMF-beta antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10690-1-AP (GMF-beta antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 10690-1-AP (GMF-beta antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 U-87 MG cells were intracellularly stained with 0.8 ug Anti-Human GMF Beta (10690-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.8 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone:) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).