

GMF beta Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54647

Specification

GMF beta Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Rat, Pig, Dog
Host
Clonality
Polyclonal

Calculated MW 17 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human GMF beta

Epitope Specificity 21-110/142

Isotype
Purity
affinity purified by Protein A

anning purmed by Frotein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SIMILARITY Belongs to the actin-binding proteins ADF

family. GMF subfamily. Contains 1 ADF-H

domain.

Post-translational modifications Phosphorylated; stimulated by phorbol

ester

Important Note

This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

Glia maturation factor β (GMF- β) belongs to the GMF subfamily of the larger actin-binding protein ADF family. This protein, which is phosphorylated following phorbol ester stimulation, is important for the nervous system. It causes brain cell differentiation, stimulates neural regeneration and inhibits tumor cell proliferation. Overexpression of GMF in astrocytes has been shown to enhance brain-derived neurotrohic factor (BDNF) production. GMF expression is increased by exercise, and the protein is crucial for exercise-induction of BDNF. Through BDNF production, GMF appears to play a role in neuroprotection. In thymoma, T-cell development is maintained by GMF- β being produced by the tumor cells.

GMF beta Polyclonal Antibody - Additional Information

Gene ID 2764

Other Names

Glia maturation factor beta, GMF-beta, GMFB

Dilution

WB~~1:1000<br \><span class</pre>



="dilution_IHC-P">IHC-P~~N/A<br \>IHC-F~~N/A<br \><span class

="dilution_IF">IF \sim 1:50 \sim 200<br \>ICC \sim N/A<br \>E \sim N/A

Storage

Store at -20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $^{\circ}$ C.

GMF beta Polyclonal Antibody - Protein Information

Name GMFB

Function

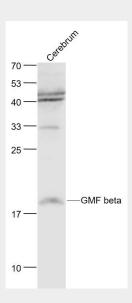
This protein causes differentiation of brain cells, stimulation of neural regeneration, and inhibition of proliferation of tumor cells.

GMF beta Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GMF beta Polyclonal Antibody - Images



Sample:

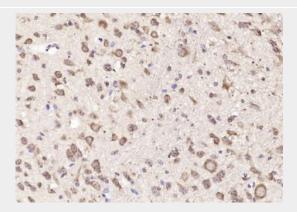
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti- GMF beta (bs-11845R) at 1/1000 dilution

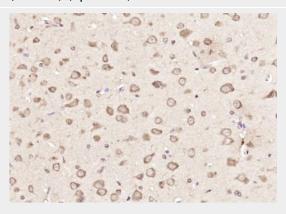


Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 17 kD Observed band size: 19 kD



Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GMF beta) Polyclonal Antibody, Unconjugated (bs-11845R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GMF beta) Polyclonal Antibody, Unconjugated (bs-11845R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.