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Human GMF-beta/GMFB antibody

Catalog Number: ATGA0452

PRODUCT INFORMATION

Catalog number

ATGA0452

Clone No.

AT44D8

Product type

Monoclonal Antibody

UnitProt No.

P60983

NCBI Accession No.

NP 004115

Alternative Names

Glia maturation factor beta, GMF, GMF beta, Glia maturation factor beta

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human GMFB (1-142aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

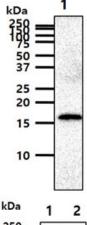
GMFB, also known as GMF, belongs to the GMF subfamily of the larger actin-binding protein ADF family. This protein, which is phosphorylated following phorbol ester stimulation, is important for the nervous system. It causes brain cell differentiation, stimulates neural regeneration and inhibits tumor cell proliferation. Overexpression of GMFB in astrocytes has been shown to enhance brain-derived neurotrohic factor (BDNF) production. GMFB expression is increased by exercise, and the protein is crucial for exercise-induction of BDNF.

General References

Li YL., et al. (2010) Eur J Cancer. 46(11): 2104-18. Wada T., et al. (2009) Int J Oncol. 35(5): 973-6.

DATA

Western blot analysis (WB)



The cell lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GMFB antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: PC3 cell lysate

The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GMFB antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

Lane 2.: GMFB transfected 293T cell lysate

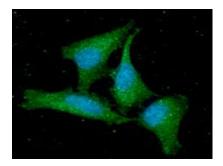
Immunocytochemistry/Immunofluorescence (ICC/IF)



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ICC/IF analysis of GMFB in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human GMFB antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

