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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**

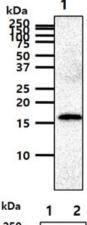
GMFB, also known as GMF, belongs to the GMF subfamily of the larger actin-binding protein ADF family. This protein, which is phosphorylated following phorbol ester stimulation, is important for the nervous system. It causes brain cell differentiation, stimulates neural regeneration and inhibits tumor 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

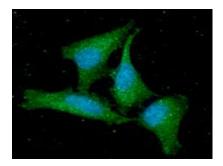
Immunocytochemistry/Immunofluorescence (ICC/IF)



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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).

