Human PPME1 antibody

Catalog Number: ATGA0449

PRODUCT INFORMATION

Catalog number
ATGA0449

Clone No.
AT29G3

Product type
Monoclonal Antibody

UnitProt No.
Q9Y570

NCBI Accession No.
NP_057231

Alternative Names
Protein phosphatase methylesterase 1, FLJ22226, PME-1

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 PPME1 (1-386aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB

Usage
The antibody has been tested by ELISA, Western blot analysis 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

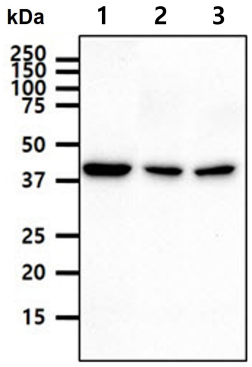
PPME1, also known protein phosphatase methylesterase-1 (PME1), catalyzes the demethylation and inactivation of protein phosphatase (PP2A), which is a multimeric phosphoserine/ threonine protein phosphatase associated with growth inhibition and cell cycle arrest. It can demethylate PP2A catalytic subunit in vitro and okadaic acid treatment is capable of inhibiting this reaction. It is conserved from yeast to human and contains a motif found in lipases having a catalytic triad activated serine as their active site nucleophile.

General References

Ogris E., et al. (1999) J. Biol. Chem. 274: 14382-14391.
Gagnon S.N., et al. (2002) Biochem. J. 368: 263-271.

DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PPME1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HeLa cell lysate
Lane 2.: K562 cell lysate
Lane 3.: A549 cell lysate