

Human LMW-PTP/ACP1 antibody

Catalog Number: ATGA0387

PRODUCT INFORMATION

Catalog number

ATGA0387

Clone No.

AT5C11

Product type

Monoclonal Antibody

UnitProt No.

P24666

NCBI Accession No.

NP_009030

Alternative Names

Acid phosphatase 1 soluble isoform b, Acid phosphatase 1, soluble isoform b, ACP1, HAAP, LMW-PTP, Red cell acid phosphatase 1, Adipocyte acid phosphatase, Acid phosphatase 1, soluble isoform b Acid phosphatase 1 soluble, Adipocyte acid phosphatase Cytoplasmic phosphotyrosyl protein phosphatase, Low molecular weight phosphotyrosine protein phosphatase, Acid phosphatase of erythrocyte, PAP2, Protein tyrosine phosphatase, PTPase, Purple acid phosphatase, Red cell acid phosphatase 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 ACP1 (1-158aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity

Human LMW-PTP/ACP1 antibody

Catalog Number: ATGA0387

and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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

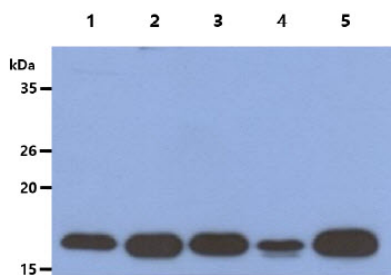
Low molecular weight phosphotyrosine protein phosphatase, also known as ACP1, is an enzyme that catalyzes the transfer of phosphate from phosphate ester substrates to suitable acceptor alcohols such as methanol and glycerol. And, It functions as an acid phosphatase and a protein tyrosine phosphatase by hydrolyzing protein tyrosine phosphate to protein tyrosine and orthophosphate.

General References

- Junien C., et al. (1979) Hum Genet. 48(1): 17-21.
- Dissing J., et al. (1992) Biochim Biophys Acta. 1121: 261-268.
- Lazaruk KD., et al. (1993) Biochem Biophys Res Commun. 196: 440-446.
- Bryson GL., et al. (1995) Genomics. 30: 133-140.

DATA

Western blot analysis (WB)



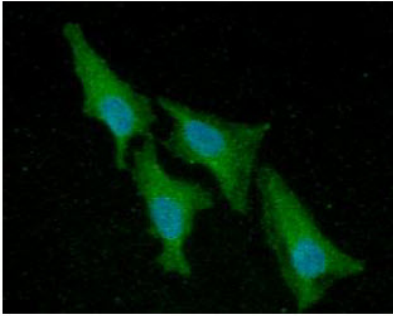
The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACP1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Lane 1. : HeLa cell lysate
- Lane 2. : Jurkat cell lysate
- Lane 3. : TF-1 cell lysate
- Lane 4. : NIH/3T3 cell lysate
- Lane 5. : HepG2 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

Human LMW-PTP/ACP1 antibody

Catalog Number: ATGA0387



ICC/IF analysis of ACP1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ACP1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).