

Monoclonal anti-human ACP1 antibody (clone AT5C11)

Mouse IgG₁, κ

Cat. No. IBATGA0387

Immunogen: Recombinant human ACP1 (1-158aa) purified from *E. coli*

NCBI Accession No.: NP_009030

Isotype: Mouse IgG₁ heavy chain and κ light chain

Clone: Anti-human ACP1 mAb, clone AT5C11, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ACP1 protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, Flow cytometry, ICC/IF

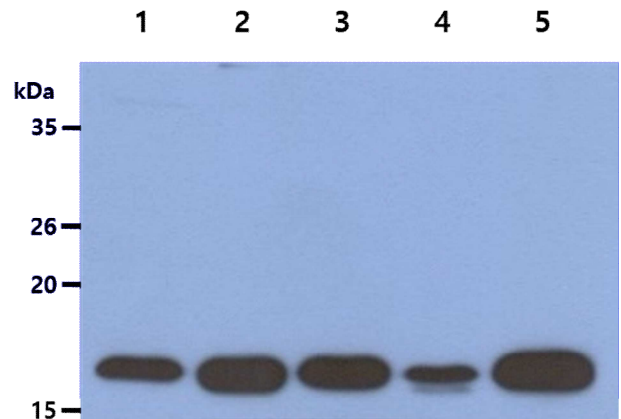
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Product information

Western blot analysis

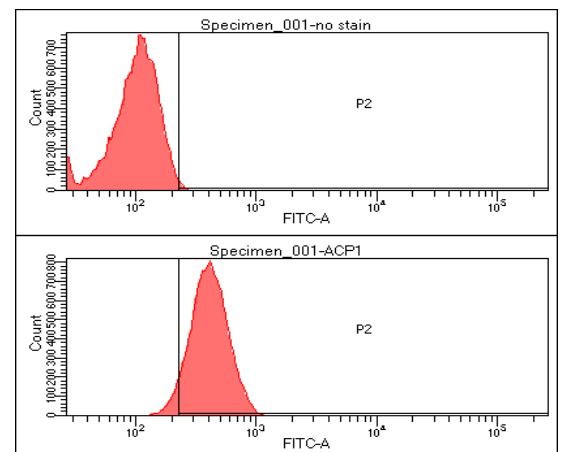
The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACP1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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



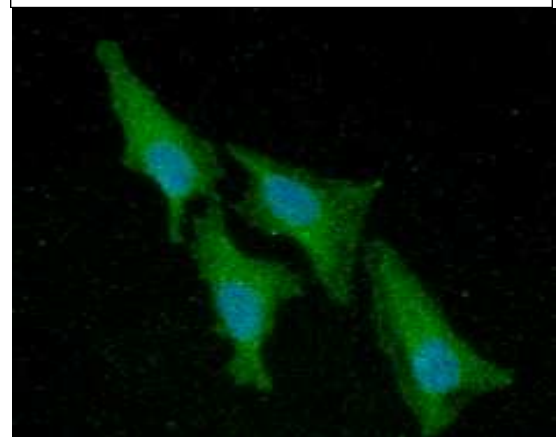
Flow cytometry

Flow cytometry analysis of ACP1 in HeLa cell line, staining at 2-5ug for 1×10^6 cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.



ICC/IF analysis

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).



Junien C., *et al.* (1979) *Hum Genet.* **48(1)**: 17-21.

Dissing J., *et al.* (1992) *Biochim Biophys Acta.* **1121**: 261-268.

General references:

Lazaruk KD., *et al.* (1993) *Biochem Biophys Res Commun.* **196**: 440-446.

Bryson GL., *et al.* (1995) *Genomics.* **30**: 133-140.

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