

Mouse anti-Human PPA1 Monoclonal Antibody | anti-PPA1 antibody

PPA1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48251	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

PPA1; Monoclonal Antibody; PPA1 antibody; Inorganic pyrophosphatase; IOPPP; PP; PP1; SID6-8061; anti-PPA1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, lamda
Clone Number	AT4G4
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	289
Applicable Applications for anti-PPA1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human PPA1 (1-289aa) purified from E. coli
Clone Note	Anti-human PPA1 mAb, clone AT4G4, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PPA1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of PPA1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PPA1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PPA1 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. : A431 cell lysate Lane 3. : 293T cell lysate Lane 4. : HepG2 cell lysate Lane 5. : U87MG cell lysate Lane 6. : PC3 cell lysate Lane 7. : WiDr cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-PPA1 antibody	PPA1 (Pyrophosphatase) belongs to the PPase family. This protein is an enzyme that catalyzes the conversion of one molecule of pyrophosphate to two phosphate ions. The hydrolysis of inorganic pyrophosphate (PPi) to two phosphate ions is utilized in many biochemical pathways to render reactions effectively irreversible. Inorganic pyrophosphatase catalyzes this hydrolysis reaction in the early steps of lipid degradation, a prominent example of this phenomenon. By promoting the rapid hydrolysis of pyrophosphate (PPi), Inorganic pyrophosphatase provides the driving force for the activation of fatty acids destined for oxidation.
Product Categories/Family for anti-PPA1 antibody	Signal Transduction; Metabolism
References	Carman GM, et al., (2006) Trends Biochem. Sci. 31 (12): 694-9. ; Usui Y, et al., (2010) J. Dent. Res. 89 (5): 504-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11056044
NCBI GeneID	5464
NCBI Accession #	NP_066952
NCBI GenBank Nucleotide #	NM_021129.3
UniProt Accession #	Q15181; Q2M348; Q5SQT7; Q6P7P4; Q9UQJ5; Q9Y5B1
Molecular Weight	32,660 Da
NCBI Official Full Name	inorganic pyrophosphatase
NCBI Official Synonym Full Names	pyrophosphatase (inorganic) 1
NCBI Official Symbol	PPA1
NCBI Official Synonym Symbols	PP; PP1; IOPPP; HEL-S-66p; SID6-8061
NCBI Protein Information	inorganic pyrophosphatase
UniProt Protein Name	Inorganic pyrophosphatase
UniProt Gene Name	PPA1
UniProt Synonym Gene Names	IOPPP; PP; PPase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ppa1-antibody-clone-at4g4-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48251>