Mouse anti-Human IMPA1 Monoclonal Antibody | anti-IMPA1 antibody

IMPA1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48213	**Mouse**	**Human**	**Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA**

PRODUCT SYNONYMS

IMPA1; Monoclonal Antibody; IMPA1 antibody; Inositol monophosphatase 1; IMPA; IMP; IMPase 1; anti-IMPA1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT2G5
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	277
Applicable Applications for anti-IMPA1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human IMPA1 (1-277aa) purified from E. coli
Clone Note	Anti-human IMPA1 mAb, clone AT2G5, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human IMPA1 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 IMPA1 in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human IMPA1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green). ICC/IF analysis of IMPA1 in LNCap cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human IMPA1 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 IMPA1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Jurkat cell lysate Lane 2.: Raji cell lysate Lane 3.: NIH/3T3 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-IMPA1 antibody	IMPA1 (inositol monophosphatase1) is responsible for the provision of inositol required for synthesis of phosphatidylinositol and polyphosphoinositides. It plays a key role in the phosphatidylinositol signaling pathway by catalyzing the hydrolysis of inositol monophosphates. This protein has been identified as the pharmacological target for lithium action in the brain.
Product Categories/Family for anti-IMPA1 antibody	Neuroscience
References	Ganzhorn AJ., et al. (1996) Biochemistry. 35 (33): 10957-66.; Parthasarathy R., et al. (1997) Brain Res. 778 (1): 99-106.; Ohnishi T., et al. (2007) J Biol Chem. 282 (1): 637-46.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031789
NCBI GeneID	3612
NCBI Accession #	NP_005527
NCBI GenBank Nucleotide #	NM_005536.3
UniProt Accession #	P29218; Q9UK71; B2R733; B4DLN3; B7Z6Q4; J3KQT7
Molecular Weight	36,695 Da
NCBI Official Full Name	inositol monophosphatase 1 isoform 1
NCBI Official Synonym Full Names	inositol monophosphatase 1
NCBI Official Symbol	IMPA1
NCBI Official Synonym Symbols	IMP; IMPA; MRT59
NCBI Protein Information	inositol monophosphatase 1
UniProt Protein Name	Inositol monophosphatase 1
UniProt Gene Name	**IMPA1**
UniProt Synonym Gene Names	IMPA; IMP 1; IMPase 1

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/impa1-antibody-clone-at2g5-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48213