

Rabbit anti-Human, Mouse IMPA1 Polyclonal Antibody | anti-IMP A1 antibody

Rabbit anti-IMP A1 Antibody, Affinity Purified

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA213262	Rabbit	Human, Mouse	Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

IMP A1; Polyclonal Antibody; Rabbit anti-IMP A1 Antibody; Affinity Purified; myo-inositol monophosphatase 1; testicular tissue protein Li 94; MRT59; lithium-sensitive myo-inositol monophosphatase A1; inositol-1(or 4)-monophosphatase 1; inositol(myo)-1(or 4)-monophosphatase 1; IMPase 1; IMP A; IMP 1; D-galactose 1-phosphate phosphatase; IMP; inositol monophosphatase 1; Inositol monophosphatase 1; anti-IMP A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-IMP A1 antibody	IP (Immunoprecipitation), WB (Western Blot)
Predicted Reactivity	Bovine, Pig, Orangutan
Immunogen	Between 227 and C-terminus
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt

IMAGES



WB (Western Blot)

Detection of human and mouse IMP A1 by western blot. Samples: Whole cell lysate (50 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-IMP A1 antibody AAA213262 (lot AAA213262-1) used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



IP (Immunoprecipitation)

Detection of human IMP A1 by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from Jurkat cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-IMP A1 antibody AAA213262 (lot AAA213262-1) used for IP at 6 ug per reaction. IMP A1 was also immunoprecipitated by rabbit anti-IMP A1 antibody For blotting immunoprecipitated IMP A1, AAA213262 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

ADDITIONAL INFORMATION

Related Product Information for anti-IMPA1 antibody	Inositol monophosphatase 1 (IMPA1) is an enzyme that dephosphorylates myo-inositol monophosphate to generate free myo-inositol, a precursor of phosphatidylinositol, and is therefore an important modulator of intracellular signal transduction via the production of the second messengers myoinositol 1,4,5-trisphosphate and diacylglycerol. This enzyme can also use myo-inositol-1,3-diphosphate, myo-inositol-1,4-diphosphate, scyllo-inositol-phosphate, glucose-1-phosphate, glucose-6-phosphate, fructose-1-phosphate, beta-glycerophosphate, and 2'-AMP as substrates. IMPA1 shows magnesium-dependent phosphatase activity and is inhibited by therapeutic concentrations of lithium. Inhibition of inositol monophosphate hydrolysis and subsequent depletion of inositol for phosphatidylinositol synthesis may explain the anti-manic and anti-depressive effects of lithium administered to treat bipolar disorder [taken from NCBI Entrez Gene (Gene ID: 3612)].
Product Categories/Family for anti-IMPA1 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031789
NCBI GeneID	3612
NCBI Accession #	NP_005527.1
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(myo)-1(or 4)-monophosphatase 1
NCBI Official Symbol	IMPA1
NCBI Official Synonym Symbols	IMP; IMPA
NCBI Protein Information	inositol monophosphatase 1
UniProt Protein Name	Inositol monophosphatase 1
UniProt Gene Name	IMPA1
UniProt Synonym Gene Names	IMP 1; IMPase 1
UniProt Entry Name	IMPA1_HUMAN

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/polyclonal/imp1-antibody-immunoprecipitation-western-blot-elisa/213262>