

Rabbit IMPA1 Polyclonal Antibody | anti-IMPA1 antibody

IMPA1 Polyclonal Antibody

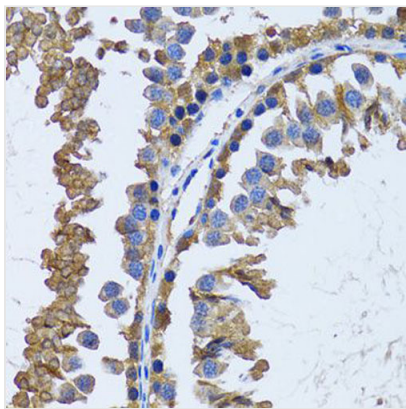
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28116	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

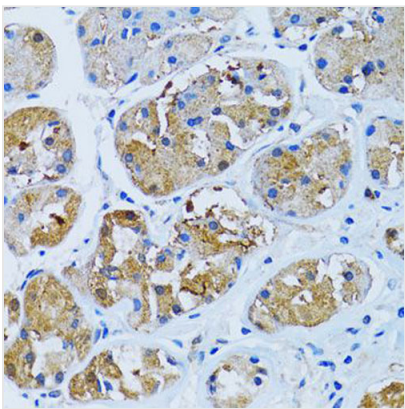
IMPA1; Polyclonal Antibody; IMPA1 Polyclonal Antibody; IMP; IMPA; anti-IMPA1 antibody

PRODUCT SPECIFICATIONS

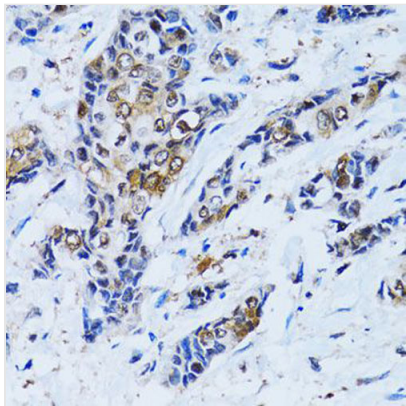
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Concentration	1mg/ml (varies by lot)
Sequence Length	277
Applicable Applications for anti-IMPA1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	WB: 1:500 - 1:2000 IHC: 1:50 - 1:200
Species	Human
Immunogen	Recombinant Protein
Immunogen	Recombinant protein of human IMPA1
Calculated Molecular Weight	30kDa
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.



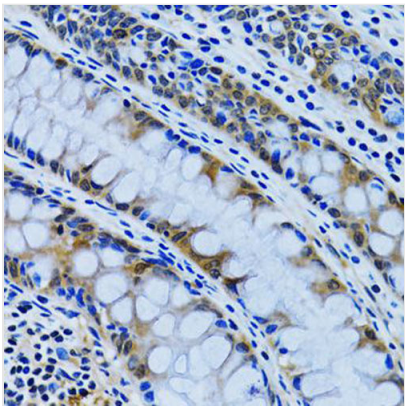
IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded mouse testis using IMPA1 antibody at dilution of 1:100 (40x lens).



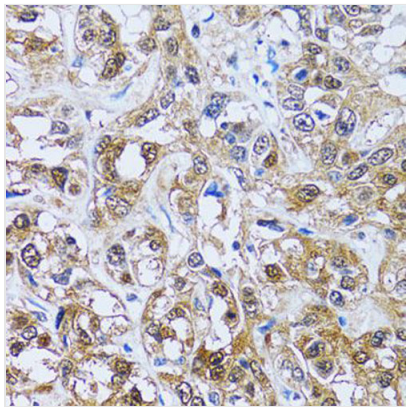
IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human stomach using IMPA1 antibody at dilution of 1:100 (40x lens).



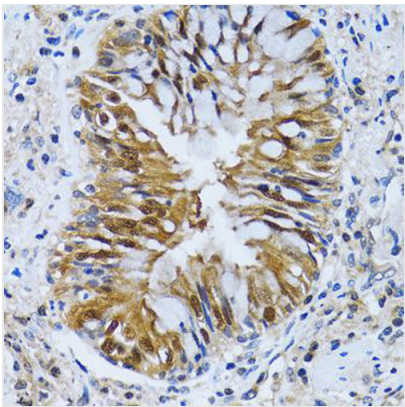
IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human breast cancer using IMPA1 antibody at dilution of 1:100 (40x lens).



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human colon using IMPA1 antibody at dilution of 1:100 (40x lens).



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human liver cancer using IMPA1 antibody at dilution of 1:100 (40x lens).



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human lung cancer using IMPA1 antibody at dilution of 1:100 (40x lens).

ADDITIONAL INFORMATION

Related Product Information for anti-IMPA1 antibody	This gene encodes 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. This enzyme 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. Alternative splicing results in multiple transcript variants encoding distinct isoforms. A pseudogene of this gene is also present on chromosome 8q21.13.
Product Categories/Family for anti-IMPA1 antibody	Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	127717
NCBI GeneID	3612
UniProt Accession #	P29218; Q9UK71; B2R733; B4DLN3; B7Z6Q4; J3KQT7
Molecular Weight	277
NCBI Official Full Name	Inositol monophosphatase 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; IMP 1; IMPase 1; inositol-1(or 4)-monophosphatase 1; D-galactose 1-phosphate phosphatase; lithium-sensitive myo-inositol monophosphatase A1
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-western-blot-immunohistochemistry-immunofluorescence-elisa/28116>