

Rabbit anti-Human PTPMT1 Polyclonal Antibody | anti-PTPMT1 antibody

Anti-PTPMT1 Antibody, Rabbit Polyclonal

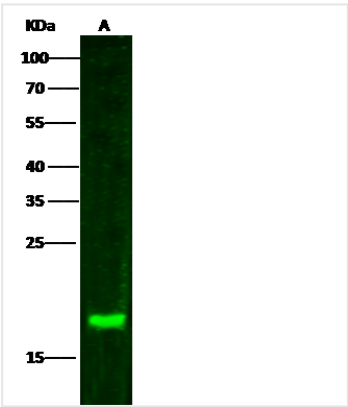
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255617	Rabbit	Human	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

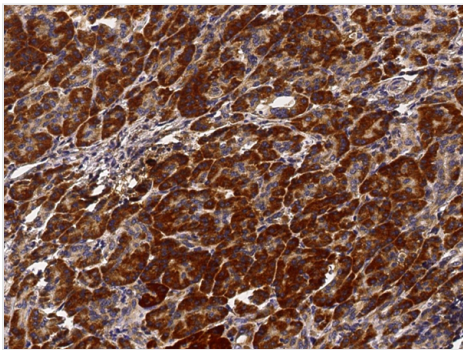
PTPMT1; Polyclonal Antibody; Anti-PTPMT1 Antibody; Rabbit Polyclonal; PTPMT1 Antibody; Rabbit PAb; Antigen Affinity Purified; protein tyrosine phosphatase; mitochondrial 1; Anti-DUSP23 Antibody; Anti-FLJ46081 Antibody; Anti-MOSP Antibody; Anti-PLIP Antibody; Anti-PNAS-129 Antibody; anti-PTPMT1 antibody

PRODUCT SPECIFICATIONS

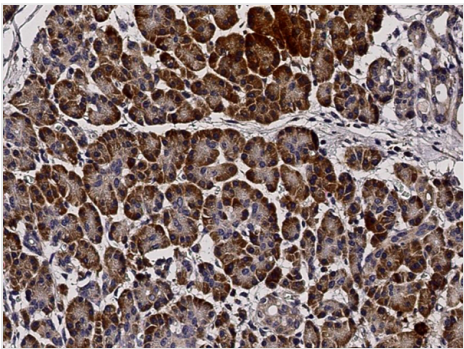
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PTPMT1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PTPMT1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant Human PTPMT1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human PTPMT1 (rh PTPMT1). PTPMT1 specific IgG was purified by Human PTPMT1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



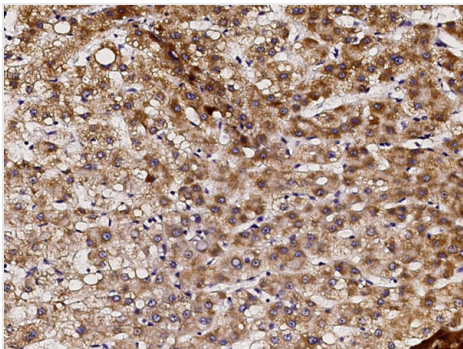
WB (Western Blot)
Anti-PTPMT1 rabbit polyclonal antibody at 1:500 dilutionLane A: 293T Whole Cell LysateLysates/proteins at 60 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:23 kDaObserved band size:18 kDa



IHC (Immunohistochemisry)
Immunochemical staining of human PTPMT1 in human pancreatic carcinoma with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohiostchemistry)
Immunochemical staining of human PTPMT1 in human pancreas with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)
Immunochemical staining of human PTPMT1 in human liver with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-PTPMT1 antibody	PTPMT1 (PTP localized to the Mitochondrion 1) is a member of the protein tyrosine phosphatase superfamily that is localized exclusively to the mitochondrion. It has been recently reported that PTPMT1 dephosphorylates phosphatidylglycerol phosphate, an essential intermediate of cardiolipin biosynthesis. PTPMT1 deficiency in mouse embryonic fibroblasts compromises mitochondrial respiration and results in abnormal mitochondrial morphology. Lipid analysis of PTPMT1-deficient fibroblasts reveals an accumulation of PGP along with a concomitant decrease in phosphatidylglycerol. Modulation of mitochondrial ATP synthesis by PTPMT1 suggests a novel approach for the treatment of pancreatic cancers, which represent some of the deadliest forms of human tumors. The gluttony of cancer cells for energy is well established, and with the development of a modulator of expression, one may hope that we could also achieve the synthetic induction of PTPMT1 expression. It would then be expected that this effect would attenuate, if not abolish, the growth of pancreas-derived tumor cells and support the establishment of a novel regimen for pancreatic cancers.
References	Zhang J, et al. (2011) Mitochondrial phosphatase PTPMT1 is essential for cardiolipin biosynthesis. Cell Metab. 13 (6): 690-700.Boisclair Y, et al. (2005) Firing up mitochondrial activities with PTPMT1. Mol Cell. 19 (3): 291-2.Xiao J, et al. (2011) Structural and functional analysis of PTPMT1, a phosphatase required for cardiolipin synthesis. Proc Natl Acad Sci. 108 (29): 11860-5.

NCBI AND UNIPROT INFORMATION

NCBI GI #	221218988
NCBI GeneID	114971
NCBI Accession #	NP_001137456.1

NCBI GenBank Nucleotide #	NM_001143984.1
UniProt Accession #	Q8WUK0 ; Q7Z557 ; Q96CR2 ; Q9BXV8 ; E9PAT8
Molecular Weight	16,459 Da
NCBI Official Full Name	phosphatidylglycerophosphatase and protein-tyrosine phosphatase 1 isoform 2
NCBI Official Synonym Full Names	protein tyrosine phosphatase, mitochondrial 1
NCBI Official Symbol	PTPMT1
NCBI Official Synonym Symbols	MOSP; PLIP; DUSP23; PNAS-129
NCBI Protein Information	phosphatidylglycerophosphatase and protein-tyrosine phosphatase 1; NB4 apoptosis/differentiation related protein; PTEN-like phosphatase; phosphoinositide lipid phosphatase; protein-tyrosine phosphatase mitochondrial 1
UniProt Protein Name	Phosphatidylglycerophosphatase and protein-tyrosine phosphatase 1
UniProt Gene Name	PTPMT1
UniProt Synonym Gene Names	MOSP; PLIP
UniProt Entry Name	PTPM1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/ptpmt1-antibody-immunohistochemistry-western-blot-elisa/255617>