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Datasheet for ABIN7118052 **anti-PTPMT1 antibody**

Overview

Quantity:	100 µg
Target:	PTPMT1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTPMT1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	protein tyrosine phosphatase, mitochondrial 1
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	PTPMT1
Alternative Name:	PTPMT1 (PTPMT1 Products)
Background:	Synonyms:MOSP, PLIP Background:Lipid phosphatase which dephosphorylates phosphatidylglycerophosphate(PGP) to phosphatidylglycerol(PG). PGP is an essential intermediate in the biosynthetic pathway of cardiolipin, a mitochondrial-specific phospholipid regulating the membrane integrity and activities of the organelle. Has also been shown to

Target Details

display phosphatase activity toward phosphoprotein substrates, specifically mediates dephosphorylation of mitochondrial proteins, thereby playing an essential role in ATP production. Has probably a preference for proteins phosphorylated on Ser and/or Thr residues compared to proteins phosphorylated on Tyr residues. Probably involved in regulation of insulin secretion in pancreatic beta cells(By similarity).

Molecular Weight: 21-23 kDa

Gene ID: 114971

UniProt: [Q8WUK0](#)

Pathways: [Inositol Metabolic Process](#)

Application Details

Application Notes: WB: 1:200-1:1000, IHC: 1:20-1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Expiry Date: 12 months