

PTP4A2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP6838c**Specification**

PTP4A2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q12974](#)**PTP4A2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 8073**Other Names**

Protein tyrosine phosphatase type IVA 2, HU-PP-1, OV-1, PTP(CAAXII), Protein-tyrosine phosphatase 4a2, Protein-tyrosine phosphatase of regenerating liver 2, PRL-2, PTP4A2, PRL2, PTPCAAX2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6838c](/products/AP6838c) was selected from the Center region of human PTP4A2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PTP4A2 Antibody (Center) Blocking Peptide - Protein Information**Name** PTP4A2**Synonyms** PRL2, PTPCAAX2**Function**

Protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. Promotes tumors. Inhibits geranylgeranyl transferase type II activity by blocking the association between RABGGTA and RABGGTB.

Cellular Location

Cell membrane. Early endosome. Cytoplasm.

Tissue Location

Ubiquitously expressed, with highest levels in skeletal muscle, heart and thymus. Overexpressed

in prostate tumor tissue.

PTP4A2 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PTP4A2 Antibody (Center) Blocking Peptide - Images

PTP4A2 Antibody (Center) Blocking Peptide - Background

PTP4A2 belongs to a small class of the protein tyrosine phosphatase (PTP) family. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. PTPs in this class contain a protein tyrosine phosphatase catalytic domain and a characteristic C-terminal prenylation motif. This PTP has been shown to primarily associate with plasmic and endosomal membrane through its C-terminal prenylation. This PTP was found to interact with the beta-subunit of Rab geranylgeranyltransferase II (beta GGT II), and thus may function as a regulator of GGT II activity.

PTP4A2 Antibody (Center) Blocking Peptide - References

Ewing,R.M., et.al., Mol. Syst. Biol. 3, 89 (2007)