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# PTP4A2 Antibody (Center) Blocking Peptide

**Synthetic peptide**
**Catalog # BP6838c**

## Specification

### PTP4A2 Antibody (Center) Blocking Peptide - Product Information

Primary 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 <a href=/products/AP6838c>AP6838c</a> 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)