

PTOR1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP4875b**Specification**

PTOR1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P85299](#)**PTOR1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 55615**Other Names**

Proline-rich protein 5, Protein observed with Rictor-1, Protor-1, PRR5, PROTOR1

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.

PTOR1 Antibody (C-term) Blocking Peptide - Protein Information**Name** PRR5**Synonyms** PROTOR1**Function**

Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. PRR5 plays an important role in regulation of PDGFRB expression and in modulation of platelet-derived growth factor signaling. May act as a tumor suppressor in breast cancer.

Tissue Location

Most abundant in kidney and liver. Also highly expressed in brain, spleen, testis and placenta. Overexpressed in several colorectal tumors.

PTOR1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PTOR1 Antibody (C-term) Blocking Peptide - Images

PTOR1 Antibody (C-term) Blocking Peptide - Background

PTOR1 encodes a protein with a proline-rich domain. This protein is located in a region of chromosome 22 reported to contain a tumor suppressor gene that may be involved in breast and colorectal tumorigenesis. Rare read-through transcripts, containing exons from the ARHGAP8 gene which is located immediately downstream, led to the original description of PRR5 and ARHGAP8 as a single gene.

PTOR1 Antibody (C-term) Blocking Peptide - References

Woo, S.Y., et al. J. Biol. Chem. 282(35):25604-25612(2007) Pearce, L.R., et al. Biochem. J. 405(3):513-522(2007) Johnstone, C.N., et al. Genomics 85(3):338-351(2005)