

Mouse Prr5 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP19341b**Specification**

Mouse Prr5 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q812A5](#)**Mouse Prr5 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 109270**Other Names**Proline-rich protein 5, Protein observed with Rictor-1, Protor-1, Prr5
{ECO:0000250|UniProtKB:P85299}, 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.

Mouse Prr5 Antibody (C-term) Blocking Peptide - Protein Information**Name** Prr5 {ECO:0000250|UniProtKB:P85299}**Synonyms** Protor1**Function**

Associated 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. 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

Ubiquitously expressed. Expressed at high levels in kidney.

Mouse Prr5 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Prr5 Antibody (C-term) Blocking Peptide - Images

Mouse Prr5 Antibody (C-term) Blocking Peptide - Background

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 (By similarity).

Mouse Prr5 Antibody (C-term) Blocking Peptide - References

Johnstone, C.N., et al. Genomics 85(3):338-351(2005)Shan, Z., et al. Gene 303, 55-61 (2003) :