Mouse Prr5 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	Prr5, Blocking Peptide
Full Product Name	Mouse Prr5 Antibody (C-term) Blocking Peptide
Product Gene Name	Prr5 blocking peptide
Product Synonym Gene Name	Protor1
Product Synonym Names	Proline-rich protein 5; Protein observed with Rictor-1; Protor-1; Prr5; Protor1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Prr5 peptide (MBS9224233) is used for blocking the activity of Prr5 antibody (MBS9202655)
Molecular Weight	41,321 Da
Tissue Location	Ubiquitously expressed. Expressed at high levels in kidney.
Related Product Information for Prr5 blocking peptide	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).
Other Notes	Small volumes of Prr5 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Prr5 purchase	MBS9224233 is a blocking peptide targeting Prr5. Also known as Mouse Prr5 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Prr5. It may not necessarily be applicable to this product.

NCBI GI #	160017980
NCBI GeneID	109270
NCBI Accession #	Q812A5.2
UniProt Primary Accession #	Q812A5
UniProt Secondary Accession #	Q5EAK2; Q8BIE7; Q8BIK1; Q8R1A0
UniProt Related Accession #	Q812A5
NCBI Official Full Name	Proline-rich protein 5
NCBI Official Synonym Full Names	proline rich 5 (renal)
NCBI Official Symbol	Prr5
NCBI Official Synonym Symbols	C78947; Arhgap8; Protor1; AU043908; Protor-1; C030017C09Rik

UniProt Protein Name	Proline-rich protein 5
UniProt Synonym Protein Names	Protein observed with Rictor-1; Protor-1
Protein Family	Proline-rich protein
UniProt Gene Name	Prr5
UniProt Synonym Gene Names	Protor-1
UniProt Entry Name	PRR5_MOUSE
NCBI Protein Information	proline-rich protein 5
UniProt Comments for Prr5	PROTOR1: 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. Belongs to the PROTOR family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Tumor suppressor Cellular Component: TORC2 complex Molecular Function: GTPase activator activity Biological Process: actin cytoskeleton organization and biogenesis; positive regulation of cell migration; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of protein amino acid phosphorylation
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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