PI3R6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PI3R6, Polyclonal Antibody
Full Product Name	PI3R6 Antibody BIOTIN
Product Gene Name	anti-PI3R6 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	Affinity Purified. Immobilized antigen affinity chromatography
Concentration	0.5-1.5ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	Store at -20 degree C for long term storage
Matching Pairs	Antibody: PI3R6 (MBS5401367) Positive Control: PI3R6 (MBS5401299)
Antibody/Peptide Pairs	PI3R6 peptide (MBS5401429) is used for blocking the activity of PI3R6 antibody (MBS5401367)
Molecular Weight	84,258 Da
OMIM	AY753192 mRNA
3D Structure	ModBase 3D Structure for Q5UE93
Immunogen	Synthetic peptide taken within amino acid region 590-640 on human PhosphoInositide 3-kinase regulatory subunit 6.
Conjugation	BIOTIN
Applications Tested/Suitable for anti-PI3R6 antibody	ELISA (EIA), Immunoprecipitation (IP), Western Blot (WB)
Related Product Information for anti-PI3R6 antibody	MBS5401367 is an antibody targeting PI3R6. Also known as PI3R6 Antibody BIOTIN. Reactive in Human, Mouse. Host: Rabbit. BIOTIN-Conjugated PhosphoInositide 3-kinase regulatory subunit 6 Antibody
Other Notes	Small volumes of anti-PI3R6 antibody 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PI3R6. It may not necessarily be applicable to this product.

NCBI GI #	58082081
NCBI GeneID	146850
NCBI Accession #	NP_001010855.1
UniProt Primary Accession #	Q5UE93
UniProt Secondary Accession #	Q658R3

UniProt Related Accession #	Q5UE93
GenBank Nucleotide #	NM_001010855.3
NCBI Official Full Name	phosphoinositide 3-kinase regulatory subunit 6 isoform 1
NCBI Official Synonym Full Names	phosphoinositide-3-kinase regulatory subunit 6
NCBI Official Symbol	PIK3R6
NCBI Official Synonym Symbols	C17orf38; HsT41028; p87PIKAP; p84 PIKAP; p87(PIKAP)
UniProt Protein Name	Phosphoinositide 3-kinase regulatory subunit 6
UniProt Synonym Protein Names	Phosphoinositide 3-kinase gamma adapter protein of 87 kDa; p84 PI3K adapter protein; p84 PIKAP; p87 PI3K adapter protein; p87PIKAP
UniProt Gene Name	PIK3R6
UniProt Synonym Gene Names	C17orf38; p84 PIKAP; p87PIKAP
NCBI Protein Information	phosphoinositide 3-kinase regulatory subunit 6
NCBI Summary for PI3R6	Phosphoinositide 3-kinase gamma is a lipid kinase that produces the lipid second messenger phosphatidylinositol 3,4,5-trisphosphate. The kinase is composed of a catalytic subunit and one of several regulatory subunits, and is chiefly activated by G protein-coupled receptors. This gene encodes a regulatory subunit, and is distantly related to the phosphoinositide-3-kinase, regulatory subunit 5 gene which is located adjacent to this gene on chromosome 7. The orthologous protein in the mouse binds to both the catalytic subunit and to G(beta/gamma), and mediates activation of the kinase subunit downstream of G protein-coupled receptors. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]
UniProt Comments for PI3R6	PIK3R6: Regulatory subunit of the PI3K gamma complex. Acts as an adapter to drive activation of PIK3CG by beta-gamma G protein dimers. The PIK3CG:PIK3R6 heterodimer is much less sensitive to beta-gamma G protein dimers than PIK3CG:PIK3R5 and its membrane recruitment and beta-gamma G protein dimer-dependent activation requires HRAS1 bound to PIK3CG. Recruits of the PI3K gamma complex to a PDE3B:RAPGEF3 signaling complex involved in angiogenesis; signaling seems to involve RRAS. Chromosomal Location of Human Ortholog: 17p13.1 Cellular Component: cytosol; membrane; phosphoinositide 3-kinase complex; plasma membrane Molecular Function: 1-phosphatidylinositol-3-kinase regulator activity; phosphatidylinositol-4,5-bisphosphate 3-kinase activity; protein binding Biological Process: angiogenesis; G-protein coupled receptor signaling pathway; phosphatidylinositol biosynthetic process; phosphatidylinositol phosphorylation; phosphoinositide 3-kinase cascade; platelet activation; positive regulation of angiogenesis; positive regulation of MAP kinase activity; positive regulation of T cell differentiation; regulation of natural killer cell mediated cytotoxicity; regulation of phosphoinositide 3-kinase activity
Research Articles on PI3R6	**1.** Our findings suggest that p84 binding to p110gamma may represent a novel negative feedback signal that terminates PI3Kgamma activity.
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