PREX2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PREX2, Polyclonal Antibody
Full Product Name	PREX2 Antibody FITC-Conjugated
Product Gene Name	anti-PREX2 antibody
Product Synonym Names	4; 5)-dependent Rac exchanger 2; 5-trisphosphate-dependent Rac exchanger 2 protein; DEP domain-containing protein 2; DEP.2; Phosphatidylinositol 3; PtdIns(3, 4, 5)-dependent Rac exchanger 2 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	FITC-Conjugated
Concentration	0.65 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: PREX2 (MBS544366) Positive Control: PREX2 (MBS543163)
Antibody/Peptide Pairs	PREX2 peptide (MBS544323) is used for blocking the activity of PREX2 antibody (MBS544366)
Molecular Weight	112,404 Da
OMIM	612139
3D Structure	ModBase 3D Structure for Q70Z35
Immunogen	Synthetic peptide taken within amino acid region 720-900 on PREX2 protein.
Expression	Isoform 1 is highly expressed in skeletal muscle, heart and placenta, absent from peripheral blood leukocytes. Isoform 2 is expressed in skeletal muscle, kidney, small intestine, and placenta. Isoform 3 is expressed in the heart.
Molecular Function	Rac GTPase activator activity, Rac guanyl-nucleotide exchange factor activity
Applications Tested/Suitable for anti-PREX2 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-PREX2 antibody	Dot Blot: 1:20,000-1:50,000 ELISA: 1:20,000-1:50,000 Western Blot: 1:500-1:750
Related Product Information for anti-PREX2 antibody	FITC-Conjugated PtdIns(3, 4, 5)-dependent Rac exchanger 2a Antibody Functions as a RAC1 guanine nucleotide exchange factor (GEF), activating Rac proteins by exchanging bound GDP for free GTP. Mediates the activation of RAC1 in a PI3K-dependent manner. May be an important mediator of Rac signaling, acting directly downstream of both G protein-coupled receptors and phosphoinositide 3-kinase.
Other Notes	Small volumes of anti-PREX2 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.
Searchable Terms for PREX2 purchase	MBS544366 is an antibody targeting PREX2. Also known as PREX2 Antibody FITC-Conjugated. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PREX2. It may not necessarily be applicable to this product.

NCBI GI #	51315380
NCBI Accession #	DAA05334.1
UniProt Primary Accession #	Q70Z35
UniProt Secondary Accession #	Q32KL0; Q32KL1; Q6R7Q3; Q6R7Q4; Q9H805; Q9H961; B4DFX0
NCBI Official Full Name	TPA_exp: PtdIns(3,4,5)-dependent Rac exchanger 2a
UniProt Protein Name	Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger 2 protein
UniProt Synonym Protein Names	DEP domain-containing protein 2
Protein Family	Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger 2 protein
UniProt Gene Name	PREX2
UniProt Synonym Gene Names	DEPDC2; P-Rex2; PtdIns(3,4,5)-dependent Rac exchanger 2
UniProt Entry Name	PREX2_HUMAN
UniProt Comments for PREX2	PREX2: Functions as a RAC1 guanine nucleotide exchange factor (GEF), activating Rac proteins by exchanging bound GDP for free GTP. Its activity is synergistically activated by phosphatidylinositol 3,4,5-trisphosphate and the beta gamma subunits of heterotrimeric G protein. Mediates the activation of RAC1 in a PI3K-dependent manner. May be an important mediator of Rac signaling, acting directly downstream of both G protein- coupled receptors and phosphoinositide 3-kinase. 3 isoforms of the human protein are produced by alternative splicing. Protein type: GEFs, Rac/Rho; Phosphatase, regulatory subunit; GEFs Chromosomal Location of Human Ortholog: 8q13.2 Cellular Component: intracellular; plasma membrane Molecular Function: GTPase activator activity; Rac guanyl-nucleotide exchange factor activity Biological Process: adult locomotory behavior; dendrite morphogenesis; G-protein coupled receptor protein signaling pathway; phosphoinositide 3-kinase cascade; positive regulation of GTPase activity; regulation of Rho protein signal transduction
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