PREX2 Positive Control

PRODUCT OVERVIEW

Product Name	PREX2, Positive Control
Full Product Name	PREX2 Antibody Western Blot Positive Control
Product Gene Name	PREX2 positive control
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
Form/Format	Western Blot Positive Control
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: PREX2 (MBS540890) Positive Control: PREX2 (MBS543163)
Matching Pairs	Antibody: PREX2 (MBS544365) Positive Control: PREX2 (MBS543163)
Matching Pairs	Antibody: PREX2 (MBS544366) Positive Control: PREX2 (MBS543163)
Molecular Weight	112,404 Da
OMIM	612139
3D Structure	ModBase 3D Structure for Q70Z35
Immunogen	Purified 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 PREX2 positive control	Western Blot (WB)
Application Notes for PREX2 positive control	Western Blot: 1:500-1:750
Related Product Information for PREX2 positive control	Western Blot Positive Control 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 PREX2 positive control 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	MBS543163 is a positive control targeting PREX2. Also known as PREX2 Antibody Western Blot Positive Control.

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; GEFs; Phosphatase, regulatory subunit 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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