TECPR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TECPR1, Polyclonal Antibody
Full Product Name	TECPR1 Antibody, Biotin conjugated
Product Gene Name	anti-TECPR1 antibody
Product Synonym Names	Tectonin beta-propeller repeat-containing protein 1; TECPR1; KIAA1358
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: TECPR1 (MBS7045685) Biotin Conjugated Antibody: TECPR1 (MBS7045436)
Molecular Weight	129,854 Da
OMIM	614781
3D Structure	ModBase 3D Structure for Q7Z6L1
Species	Human
Immunogen	Recombinant human Tectonin beta-propeller repeat-containing protein 1 protein
Conjugate	Biotin
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-240971
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TECPR1 antibody	ELISA (EIA)
Related Product Information for anti-TECPR1 antibody	Tethering factor involved in autophagy. Involved in autophagosome maturation by promoting the autophagosome fusion with lysosomes: acts by associating with both the ATG5-ATG12 conjugate and phosphatidylinositol-3-phosphate (PtdIns(3)P) present at the surface of autophagosomes. Also involved in selective autophagy against bacterial pathogens, by being required for phagophore/preautophagosomal structure biogenesis and maturation.
Other Notes	Small volumes of anti-TECPR1 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 TECPR1 purchase	MBS7045436 is an antibody targeting TECPR1. Also known as TECPR1 Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TECPR1. It may not necessarily be applicable to this product.

NCBI GI #	32698704
NCBI GeneID	25851
NCBI Accession #	NP_056210.1
UniProt Primary Accession #	Q7Z6L1
UniProt Secondary Accession #	Q96EB0; Q9P2I9; Q9UFR6; A8KAD1; B3KPZ1; C9J024; F5GX57
UniProt Related Accession #	Q7Z6L1
GenBank Nucleotide #	NM_015395.2
NCBI Official Full Name	tectonin beta-propeller repeat-containing protein 1
NCBI Official Synonym Full Names	tectonin beta-propeller repeat containing 1
NCBI Official Symbol	TECPR1
UniProt Protein Name	Tectonin beta-propeller repeat-containing protein 1
Protein Family	Tectonin beta-propeller repeat-containing protein
UniProt Gene Name	TECPR1
UniProt Synonym Gene Names	KIAA1358
UniProt Entry Name	TCPR1_HUMAN
NCBI Protein Information	tectonin beta-propeller repeat-containing protein 1
NCBI Summary for TECPR1	This gene encodes a tethering factor involved in autophagy. The encoded protein is found at autolysosomes, and is involved in targeting protein aggregates, damaged mitochondria, and bacterial pathogens for autophagy [provided by RefSeq, Nov 2012]
UniProt Comments for TECPR1	TECPR1: Tethering factor involved in autophagy. Involved in autophagosome maturation by promoting the autophagosome fusion with lysosomes: acts by associating with both the ATG5-ATG12 conjugate and phosphatidylinositol-3-phosphate (PtdIns(3)P) present at the surface of autophagosomes. Also involved in selective autophagy against bacterial pathogens, by being required for phagophore/preautophagosomal structure biogenesis and maturation. Interacts with ATG5; the interaction is direct. Interacts with WIPI2. Interacts with the ATG5-ATG12 conjugate, the interaction is however mutually exclusive with ATG16, since it does not interact with ATG12-ATG5-ATG16 complex. Belongs to the TECPR1 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin conjugating system; Autophagy Chromosomal Location of Human Ortholog: 7q21.3 Cellular Component: lysosomal membrane Molecular Function: phosphatidylinositol 3-phosphate binding; protein binding Biological Process: autophagy
Research Articles on TECPR1	**1.** The concerted interactions among TECPR1, Atg12-Atg5, and PtdIns(3)P provide the fusion specificity between autophagosomes and lysosomes and that the assembly of this complex initiates the autophagosome maturation process.
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