TECPR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TECPR1, Polyclonal Antibody
Full Product Name	TECPR1, NT (Tectonin beta-propeller Repeat-containing Protein 1, KIAA1358) (MaxLight 405)
Product Gene Name	anti-TECPR1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human PALA.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	129,696 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (97846036..97881468, complement). Location: 7q21.3
3D Structure	ModBase 3D Structure for Q7Z6L1
Immunogen	Synthetic peptide selected from the N-terminal region of human PALA (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-TECPR1 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-TECPR1 antibody	Western Blot (WB), FLISA
Application Notes for anti-TECPR1 antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TECPR1 antibody	MBS6502265 is an antibody targeting TECPR1. Also known as TECPR1, NT (Tectonin beta-propeller Repeat-containing Protein 1, KIAA1358) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-TECPR1 antibody	1. Scherer, S.W., et.al., Science 300(5620), 767-772 (2003).
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.

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
UniProt Related Accession #	Q7Z6L1
GenBank Nucleotide #	NM_015395.1
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
NCBI Official Synonym Symbols	FLJ23419; FLJ90593; DKFZP434B0335
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; OTTHUMP00000205440
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; integral to membrane; cytoplasmic vesicle Molecular Function: protein binding; phosphatidylinositol 3-phosphate binding Biological Process: autophagic vacuole fusion; autophagy
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