TECPR1 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	TECPR1, Blocking Peptide
Full Product Name	TECPR1 Peptide - N-terminal region
Product Gene Name	TECPR1 blocking peptide
Product Synonym Gene Name	TECPR1; KIAA1358;
Sequence	Synthetic peptide located within the following region: YTKDKKWNSC VRRRKWIRYR RYKSRDIWAK IPSKDDPKEL PDPFNDLSVG
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	TECPR1 peptide (MBS3243858) is used for blocking the activity of TECPR1 antibody (MBS3218964)
Molecular Weight	85kDa
Product Categories/Family for TECPR1 blocking peptide	Peptide
Applications Tested/Suitable for TECPR1 blocking peptide	Western Blot (WB)
Related Product Information for TECPR1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-TECPR1 Antibody, made Target Description: 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.
Other Notes	Small volumes of TECPR1 blocking peptide 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	MBS3243858 is a blocking peptide targeting TECPR1. Also known as TECPR1 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	530385709
NCBI GeneID	25851
NCBI Accession #	XP_005250311
UniProt Primary Accession #	Q7Z6L1
UniProt Related Accession #	Q7Z6L1
GenBank Nucleotide #	XM_005250254.1
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; integral to membrane; cytoplasmic vesicle Molecular Function: protein binding; phosphatidylinositol 3-phosphate binding Biological Process: autophagic vacuole fusion; 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.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-blocking-peptide/tecpr1/3243858