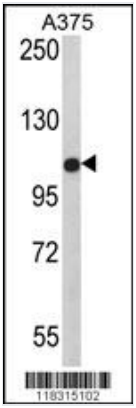
# TECPR1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

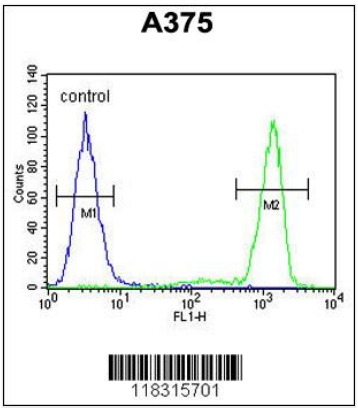
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|---|---|
| **Product Name** | TECPR1, Polyclonal Antibody |
| **Full Product Name** | TECPR1, NT (Tectonin beta-propeller Repeat-containing Protein 1, KIAA1358) (Biotin) |
| **Product Gene Name** | anti-TECPR1 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin. |
| **Purity/Purification** | Purified by Immunoaffinity chromatography. |
| **Specificity** | Recognizes human PALA. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and 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** | Biotin |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-TECPR1 antibody** | Antibodies; Proteins |
| **Applications Tested/Suitable for anti-TECPR1 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-TECPR1 antibody** | WB: 1:100-1:500<br>ELISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-TECPR1 antibody** | MBS6502262 is an antibody targeting TECPR1. Also known as TECPR1, NT (Tectonin beta-propeller Repeat-containing Protein 1, KIAA1358) (Biotin). 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. |




**Immunohistochemistry (IHC) of anti-TECPR1 antibody**
Formalin-fixed and paraffin-embedded human brain tissue reacted with PALA Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.




**Western Blot (WB) of anti-TECPR1 antibody**
Western blot analysis of PALA Antibody (N-term) in A375 cell line lysates (35ug/lane). PALA (arrow) was detected using the purified Pab.




**Flow Cytometry (FC/FACS) of anti-TECPR1 antibody**
PALA Antibody (N-term) flow cytometric analysis of A375 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## ADDITIONAL DETAILS

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

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|---|---|
| **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 |

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|---|---|
| **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.<br><br>Protein type: Ubiquitin conjugating system; Autophagy<br><br>Chromosomal Location of Human Ortholog: 7q21.3<br><br>Cellular Component: lysosomal membrane; integral to membrane; cytoplasmic vesicle<br><br>Molecular Function: protein binding; phosphatidylinositol 3-phosphate binding<br><br>Biological Process: autophagic vacuole fusion; autophagy |
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