

**C4orf49 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14729b****Specification**

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**C4orf49 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q8TDB4](#)**C4orf49 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 84709**Other Names**

Protein MGARP, Corneal endothelium-specific protein 1, CESP-1, Hypoxia up-regulated mitochondrial movement regulator protein, Mitochondria-localized glutamic acid-rich protein, Ovary-specific acidic protein, MGARP, C4orf49, CESP1, HUMMR, OSAP

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**C4orf49 Antibody (C-term) Blocking Peptide - Protein Information****Name** MGARP**Synonyms** C4orf49, CESP1, HUMMR, OSAP**Function**

Plays a role in the trafficking of mitochondria along microtubules. Regulates the kinesin-mediated axonal transport of mitochondria to nerve terminals along microtubules during hypoxia. Participates in the translocation of TRAK2/GRIF1 from the cytoplasm to the mitochondrion. Also plays a role in steroidogenesis through maintenance of mitochondrial abundance and morphology (By similarity). Plays an inhibitory role during neocortex development by regulating mitochondrial morphology, distribution and motility in neocortical neurons (By similarity).

**Cellular Location**

Mitochondrion. Mitochondrion outer membrane {ECO:0000250|UniProtKB:Q8VI64}; Single-pass type IV membrane protein {ECO:0000250|UniProtKB:Q8VI64}; Cytoplasmic side {ECO:0000250|UniProtKB:Q8VI64}. Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q8VI64}; Single-pass type IV membrane protein {ECO:0000250|UniProtKB:Q8VI64}; Cytoplasmic side {ECO:0000250|UniProtKB:Q8VI64}.  
Note=Colocalizes with RHOT1, RHOT2, TRAK1 and TRAK2 at the mitochondrion.

{ECO:0000250|UniProtKB:Q8VI64}

**Tissue Location**

Expressed in the brain, adrenal gland and corneal endothelium (CE). Expressed in steroid-producing cells of the ovary and testis (at protein level). Expressed in steroid-producing cells of the ovary and testis. Weakly expressed in placenta. Expressed in corneal endothelial cells.

**C4orf49 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**C4orf49 Antibody (C-term) Blocking Peptide - Images****C4orf49 Antibody (C-term) Blocking Peptide - Background**

The function of this protein remains unknown.

**C4orf49 Antibody (C-term) Blocking Peptide - References**

Matsumoto, T., et al. Endocrinology 150(7):3353-3359(2009) Li, Y., et al. J. Cell Biol. 185(6):1065-1081(2009) Kinouchi, R., et al. Invest. Ophthalmol. Vis. Sci. 47(4):1397-1403(2006) Sakai, R., et al. Invest. Ophthalmol. Vis. Sci. 43(6):1749-1756(2002)