

C9orf7 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17389b**Specification**

C9orf7 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9UGQ2](#)**C9orf7 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 11094**Other Names**

Calcium channel flower homolog, Calcium channel flower domain-containing protein 1, CACFD1, C9orf7

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.

C9orf7 Antibody (C-term) Blocking Peptide - Protein Information**Name** CACFD1**Synonyms** C9orf7**Function**

Transmembrane protein which mediates synaptic endocytosis and fitness-based cell culling (PubMed:31341286, PubMed:37348560). In response to different stimulus strengths, controls two major modes of synaptic vesicle (SV) retrieval in hippocampal neurons; Clathrin- mediated endocytosis (CME) in response to mild stimulation and activity-dependent bulk endocytosis (ADBE) in response to strong stimulation (By similarity). In cytotoxic T-lymphocytes (CTLs) facilitates calcium-dependent endocytosis of cytotoxic granules at the immuno synapse (By similarity). Different isoforms work as fitness fingerprints in 'loser' and 'winner' cells and thereby mediate win/lose decisions as part of the cell competition process (PubMed:31341286).

Cellular Location

Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle {ECO:0000250|UniProtKB:D4A9I3}. Golgi apparatus {ECO:0000250|UniProtKB:D4A9I3}.

Vesicle {ECO:0000250|UniProtKB:Q8BG21} Note=In cytotoxic T-lymphocytes, localizes to intracellular vesicles that move to the immuno synapse (By similarity). Enriched in synaptic vesicles at the presynaptic vesicles (By similarity). Detected in the Golgi apparatus of cultured hippocampal neurons (By similarity) {ECO:0000250|UniProtKB:D4A9I3, ECO:0000250|UniProtKB:Q8BG21} [Isoform 2]: Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

Detected in skin cells at low levels of expression (at protein level).

C9orf7 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

C9orf7 Antibody (C-term) Blocking Peptide - Images**C9orf7 Antibody (C-term) Blocking Peptide - Background**

C9orf7 belongs to the calcium channel flower family.

C9orf7 Antibody (C-term) Blocking Peptide - References

Yao, C.K., et al. Cell 138(5):947-960(2009)Yuan, X., et al. Am. J. Hum. Genet. 83(4):520-528(2008)Humphray, S.J., et al. Nature 429(6990):369-374(2004)Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)