

CCD47 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9357b**Specification**

CCD47 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q96A33](#)**CCD47 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 57003**Other Names**

Coiled-coil domain-containing protein 47, CCDC47

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.

CCD47 Antibody (C-term) Blocking Peptide - Protein Information**Name** CCDC47 {ECO:0000303|PubMed:30401460, ECO:0000312|HGNC:HGNC:24856}**Function**

Component of the multi-pass translocon (MPT) complex that mediates insertion of multi-pass membrane proteins into the lipid bilayer of membranes (PubMed:32814900, PubMed:32820719, PubMed:36261522). The MPT complex takes over after the SEC61 complex: following membrane insertion of the first few transmembrane segments of proteins by the SEC61 complex, the MPT complex occludes the lateral gate of the SEC61 complex to promote insertion of subsequent transmembrane regions (PubMed:36261522). Within the MPT complex, the PAT subcomplex sequesters any highly polar regions in the transmembrane domains away from the non-polar membrane environment until they can be buried in the interior of the fully assembled protein (By similarity). Within the PAT subcomplex, CCDC47 occludes the lateral gate of the SEC61 complex (By similarity). Involved in the regulation of calcium ion homeostasis in the ER (PubMed:30401460). Required for proper protein degradation via the ERAD (ER-associated degradation) pathway (PubMed:25009997). Has an essential role in the maintenance of ER organization during embryogenesis (By similarity).

Cellular Location

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Rough endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9D024}; Single-pass type I membrane protein

CCD47 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CCD47 Antibody (C-term) Blocking Peptide - Images**CCD47 Antibody (C-term) Blocking Peptide - References**

Ewing,R.M. Mol. Syst. Biol. 3, 89 (2007)