

BCAP31 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP20499c**Specification**

BCAP31 Blocking Peptide (Center) - Product InformationPrimary Accession [P51572](#)**BCAP31 Blocking Peptide (Center) - Additional Information**

Gene ID 10134

Other Names

B-cell receptor-associated protein 31, BCR-associated protein 31, Bap31, 6C6-AG tumor-associated antigen, Protein CDM, p28, BCAP31, BAP31, DXS1357E

Target/Specificity

The synthetic peptide sequence is selected from aa 135-147 of Human BCAP31

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.

BCAP31 Blocking Peptide (Center) - Protein InformationName BCAP31 ([HGNC:16695](#))**Function**

Functions as a chaperone protein (PubMed: [9396746](http://www.uniprot.org/citations/9396746)), PubMed: [18287538](http://www.uniprot.org/citations/18287538)). Is one of the most abundant endoplasmic reticulum (ER) proteins (PubMed: [9396746](http://www.uniprot.org/citations/9396746)), PubMed: [18287538](http://www.uniprot.org/citations/18287538)). Plays a role in the export of secreted proteins in the ER, the recognition of abnormally folded protein and their targeting to the ER associated-degradation (ERAD) (PubMed: [9396746](http://www.uniprot.org/citations/9396746)), PubMed: [18287538](http://www.uniprot.org/citations/18287538)). Also serves as a cargo receptor for the export of transmembrane proteins (By similarity). Plays a role in the assembly of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) by stimulating the translocation of NDUFS4 and NDUFB11 from the cytosol to the mitochondria via interaction with TOMM40 (PubMed: [31206022](http://www.uniprot.org/citations/31206022)).

In response to ER stress, delocalizes from the ER-mitochondria contact sites and binds BCL2 (PubMed:31206022). May be involved in CASP8-mediated apoptosis (PubMed:10958671).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein Endoplasmic reticulum-Golgi intermediate compartment membrane; Multi-pass membrane protein. Note=May shuttle between the ER and the intermediate compartment/cis-Golgi complex (PubMed:9396746). Associates with the mitochondria-associated endoplasmic reticulum membrane via interaction with TOMM40 (PubMed:31206022)

Tissue Location

Ubiquitous. Highly expressed in neurons and discrete endocrine cells.

BCAP31 Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

BCAP31 Blocking Peptide (Center) - Images**BCAP31 Blocking Peptide (Center) - Background**

May play a role in anterograde transport of membrane proteins from the endoplasmic reticulum to the Golgi. May be involved in CASP8-mediated apoptosis.

BCAP31 Blocking Peptide (Center) - References

Mosser J., et al. Genomics 22:469-471(1994).
Li E., et al. Eur. J. Biochem. 238:631-638(1996).
Adachi T., et al. EMBO J. 15:1534-1541(1996).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Ross M.T., et al. Nature 434:325-337(2005).