10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KDELR1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP19130b

Specification

KDELR1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P24390

KDELR1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 10945

Other Names
ER lumen protein-retaining receptor 1, KDEL endoplasmic reticulum protein retention receptor 1, KDEL receptor 1, Putative MAPK-activating protein PM23, KDELR1, ERD21

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.

KDELR1 Antibody (C-term) Blocking Peptide - Protein Information

Name KDELR1

Synonyms ERD2.1

Function
Receptor for the C-terminal sequence motif K-D-E-L that is present on endoplasmic reticulum resident proteins and that mediates their recycling from the Golgi back to the endoplasmic reticulum.

Cellular Location
Golgi apparatus membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P33946}. Cytoplasmic vesicle, COPI-coated vesicle membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P33946}. Endoplasmic reticulum membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P33946}. Endoplasmic reticulum-Golgi intermediate compartment membrane {ECO:0000250|UniProtKB:P33946}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P33946} Note=Localized in the Golgi in the absence of bound proteins with the sequence motif K-D-E-L. Trafficks back to the endoplasmic reticulum together with cargo proteins containing the sequence motif K-D-E-L

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KDELR1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

KDELR1 Antibody (C-term) Blocking Peptide - Images

KDELR1 Antibody (C-term) Blocking Peptide - Background

Retention of resident soluble proteins in the lumen of theendoplasmic reticulum (ER) is achieved in both yeast and animalcells by their continual retrieval from the cis-Golgi, or apre-Golgi compartment. Sorting of these proteins is dependent on aC-terminal tetrapeptide signal, usually lys-asp-glu-leu (KDEL) inanimal cells, and his-asp-glu-leu (HDEL) in S. cerevisiae. Thisprocess is mediated by a receptor that recognizes, and binds thetetrapeptide-containing protein, and returns it to the ER. Inyeast, the sorting receptor encoded by a single gene, ERD2, whichis a seven-transmembrane protein. Unlike yeast, several humanhomologs of the ERD2 gene, constituting the KDEL receptor genefamily, have been described. The protein encoded by this gene wasthe first member of the family to be identified, and it encodes aprotein structurally and functionally similar to the yeast ERD2gene product.

KDELR1 Antibody (C-term) Blocking Peptide - References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Breuza, L., et al. J. Biol. Chem. 279(45):47242-47253(2004)Bard, F., et al. J. Biol. Chem. 278(47):46601-46606(2003)Yamamoto, K., et al. J. Biol. Chem. 278(36):34525-34532(2003)Matsuda, A., et al. Oncogene 22(21):3307-3318(2003)