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

DNAJC10 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP18675a

Specification

DNAJC10 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q8IXB1

DNAJC10 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 54431

Other Names
DnaJ homolog subfamily C member 10, 184-, Endoplasmic reticulum DNA J domain-containing protein 5, ER-resident protein ERdj5, ERdj5, Macrothioredoxin, MTHr, DNAJC10, ERDJ5

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.

DNAJC10 Antibody (N-term) Blocking Peptide - Protein Information

Name DNAJC10

Synonyms ERDJ5

Function
Endoplasmic reticulum disulfide reductase involved both in the correct folding of proteins and degradation of misfolded proteins. Required for efficient folding of proteins in the endoplasmic reticulum by catalyzing the removal of non-native disulfide bonds formed during the folding of proteins, such as LDLR. Also involved in endoplasmic reticulum-associated degradation (ERAD) by reducing incorrect disulfide bonds in misfolded glycoproteins recognized by EDEM1. Interaction with HSPA5 is required its activity, not for the disulfide reductase activity, but to facilitate the release of DNAJC10 from its substrate. Promotes apoptotic signaling pathway in response to endoplasmic reticulum stress.

Cellular Location
Endoplasmic reticulum lumen {ECO:0000255|PROSITE- ProRule:PRU10138, ECO:0000269|PubMed:12411443, ECO:0000269|PubMed:23769672}

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DNAJC10 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

DNAJC10 Antibody (N-term) Blocking Peptide - Images

DNAJC10 Antibody (N-term) Blocking Peptide - Background

This endoplasmic reticulum co-chaperone may play a role in protein folding and translocation across the endoplasmic reticulum membrane. May act as a co-chaperone for HSPA5.

DNAJC10 Antibody (N-term) Blocking Peptide - References

Wang, M., et al. J. Biol. Chem. 284(48):33377-33383(2009)Thomas, C.G., et al. J. Biol. Chem. 284(10):6282-6290(2009)Ushioda, R., et al. Science 321(5888):569-572(2008)Dong, M., et al. Mol. Biol. Cell 19(6):2620-2630(2008)Hillier, L.W., et al. Nature 434(7034):724-731(2005)