

DNAJB12 Antibody(N-term) Blocking peptide
Synthetic peptide
Catalog # BP19585a**Specification**

DNAJB12 Antibody(N-term) Blocking peptide - Product InformationPrimary Accession [Q9NXW2](#)**DNAJB12 Antibody(N-term) Blocking peptide - Additional Information****Gene ID** 54788**Other Names**

DnaJ homolog subfamily B member 12, DNAJB12

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.

DNAJB12 Antibody(N-term) Blocking peptide - Protein Information**Name** DNAJB12 {ECO:0000303|PubMed:21150129, ECO:0000312|HGNC:HGNC:14891}**Function**

Acts as a co-chaperone with HSPA8/Hsc70; required to promote protein folding and trafficking, prevent aggregation of client proteins, and promote unfolded proteins to endoplasmic reticulum-associated degradation (ERAD) pathway (PubMed:21150129, PubMed:21148293). Acts by determining HSPA8/Hsc70's ATPase and polypeptide-binding activities (PubMed:21148293). Can also act independently of HSPA8/Hsc70: together with DNAJB14, acts as a chaperone that promotes maturation of potassium channels KCND2 and KCNH2 by stabilizing nascent channel subunits and assembling them into tetramers (PubMed:27916661). While stabilization of nascent channel proteins is dependent on HSPA8/Hsc70, the process of oligomerization of channel subunits is independent of HSPA8/Hsc70 (PubMed:27916661). When overexpressed, forms membranous structures together with DNAJB14 and HSPA8/Hsc70 within the nucleus; the role of these structures, named DJANGOs, is still unclear (PubMed:24732912).

Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein. Note=Localizes to the endoplasmic reticulum membrane (PubMed:21150129, PubMed:21148293, PubMed:24732912, PubMed:27916661) When overexpressed, forms membranous structures in the nucleus (PubMed:24732912).

DNAJB12 Antibody(N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

DNAJB12 Antibody(N-term) Blocking peptide - Images

DNAJB12 Antibody(N-term) Blocking peptide - Background

DNAJB12 belongs to the evolutionarily conserved DNAJ/HSP40 family of proteins, which regulate molecular chaperone activity by stimulating ATPase activity. DNAJ proteins may have up to 3 distinct domains: a conserved 70-amino acid J domain, usually at the N terminus; a glycine/phenylalanine (G/F)-rich region; and a cysteine-rich domain containing 4 motifs resembling a zinc finger domain (Ohtsuka and Hata, 2000 [PubMed 11147971]). [supplied by OMIM].

DNAJB12 Antibody(N-term) Blocking peptide - References

Lamesch, P., et al. Genomics 89(3):307-315(2007)
Ohtsuka, K., et al. Cell Stress Chaperones 5(2):98-112(2000)