

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

---

**DNAJB12 Antibody(N-term) Blocking peptide - Product Information**Primary 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:<a href="http://www.uniprot.org/citations/21150129" target="\_blank">21150129</a>, PubMed:<a href="http://www.uniprot.org/citations/21148293" target="\_blank">21148293</a>). Acts by determining HSPA8/Hsc70's ATPase and polypeptide-binding activities (PubMed:<a href="http://www.uniprot.org/citations/21148293" target="\_blank">21148293</a>). 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:<a href="http://www.uniprot.org/citations/27916661" target="\_blank">27916661</a>). While stabilization of nascent channel proteins is dependent on HSPA8/Hsc70, the process of oligomerization of channel subunits is independent of HSPA8/Hsc70 (PubMed:<a href="http://www.uniprot.org/citations/27916661" target="\_blank">27916661</a>). 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:<a href="http://www.uniprot.org/citations/24732912" target="\_blank">24732912</a>).

**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)