

**DJB14 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11640a****Specification**

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**DJB14 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q8TBM8](#)**DJB14 Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 79982

**Other Names**

DnaJ homolog subfamily B member 14, DNAJB14

**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.

**DJB14 Antibody (N-term) Blocking peptide - Protein Information**Name DNAJB14 ([HGNC:25881](#))**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/24732912" target="\_blank">24732912</a>). Acts by determining HSPA8/Hsc70's ATPase and polypeptide-binding activities (PubMed:<a href="http://www.uniprot.org/citations/24732912" target="\_blank">24732912</a>). Can also act independently of HSPA8/Hsc70: together with DNAJB12, 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 DNAJB12 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:23018488, PubMed:24732912, PubMed:27916661) When overexpressed, forms membranous structures in the nucleus (PubMed:24732912).

#### **DJB14 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **DJB14 Antibody (N-term) Blocking peptide - Images**

#### **DJB14 Antibody (N-term) Blocking peptide - Background**

DJB14 may act as a co-chaperone (By similarity).

#### **DJB14 Antibody (N-term) Blocking peptide - References**

Hillier, L.W., et al. Nature 434(7034):724-731(2005)Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)