

DNAJA1 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP20747c**Specification**

DNAJA1 Blocking Peptide (C-term) - Product Information

Primary Accession [P31689](#)
Other Accession [P63036](#), [P63037](#), [Q5E954](#)

DNAJA1 Blocking Peptide (C-term) - Additional Information

Gene ID 3301

Other Names

DnaJ homolog subfamily A member 1, DnaJ protein homolog 2, HSDJ, Heat shock 40 kDa protein 4, Heat shock protein J2, HSJ-2, Human DnaJ protein 2, hDj-2, DNAJA1, DNAJ2, HDJ2, HSJ2, HSPF4

Target/Specificity

The synthetic peptide sequence is selected from aa 379-394 of HUMAN DNAJA1

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.

DNAJA1 Blocking Peptide (C-term) - Protein Information

Name DNAJA1

Synonyms DNAJ2, HDJ2, HSJ2, HSPF4

Function

Co-chaperone for HSPA8/Hsc70 (PubMed:10816573). Stimulates ATP hydrolysis, but not the folding of unfolded proteins mediated by HSPA1A (in vitro) (PubMed:24318877). Plays a role in protein transport into mitochondria via its role as co-chaperone. Functions as a co-chaperone for HSPA1B and negatively regulates the translocation of BAX from the cytosol to mitochondria in response to cellular stress, thereby protecting cells against apoptosis (PubMed:14752510). Promotes apoptosis in response to cellular stress mediated by exposure to anisomycin or UV (PubMed:24512202).

Cellular Location

Membrane; Lipid- anchor. Cytoplasm. Microsome. Nucleus. Cytoplasm, perinuclear region.
Mitochondrion Note=Primarily associated with microsomes. A minor proportion is associated with mitochondria (By similarity). Primarily cytoplasmic. A minor proportion is associated with nuclei.

Tissue Location

Ubiquitous. Isoform 2 is highly expressed in testis and lung, but detected at low levels in thymus, prostate, colon and liver.

DNAJA1 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

DNAJA1 Blocking Peptide (C-term) - Images**DNAJA1 Blocking Peptide (C-term) - Background**

Co-chaperone of Hsc70. Seems to play a role in protein import into mitochondria.

DNAJA1 Blocking Peptide (C-term) - References

Oh S.,et al.Biochim. Biophys. Acta 1174:114-116(1993).
Chellaiah A.,et al.Biochim. Biophys. Acta 1174:111-113(1993).
Hu Y.,et al.Int. J. Androl. 27:343-349(2004).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).