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DNAJB2 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP18931a

Specification

DNAJB2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P25686

DNAJB2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 3300

Other Names
DnaJ homolog subfamily B member 2, DnaJ protein homolog 1, Heat shock 40 kDa protein 3, Heat shock protein J1, HSJ-1, DNAJB2, HSJ1, HSPF3

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.

DNAJB2 Antibody (N-term) Blocking Peptide - Protein Information

Name DNAJB2 (HGNC:5228)

Function
Functions as a co-chaperone, regulating the substrate binding and activating the ATPase activity of chaperones of the HSP70/heat shock protein 70 family (PubMed:7957263, PubMed:22219199). In parallel, also contributes to the ubiquitin-dependent proteasomal degradation of misfolded proteins (PubMed:15936278, PubMed:21625540). Thereby, may regulate the aggregation and promote the functional recovery of misfolded proteins like HTT, MC4R, PRKN, RHO and SOD1 and be crucial for many biological processes (PubMed:12754272, PubMed:20889486, PubMed:21719532, PubMed:22396390, PubMed:24023695). Isoform 1 which is localized to the endoplasmic reticulum membranes may specifically function in ER-associated protein degradation of misfolded proteins (PubMed:15936278).

Cellular Location
[Isoform 2]: Cytoplasm. Nucleus

Tissue Location
More abundantly expressed in neocortex, cerebellum, spinal cord and retina where it is expressed by neuronal cells (at protein level) (PubMed:1599432, PubMed:12754272). Detected at much lower level in non-neuronal tissues including kidney, lung, heart, skeletal muscle, spleen and testis (at protein level) (PubMed:12754272, PubMed:1599432). Isoform 1 is more abundant in neocortex and cerebellum compared to isoform 2 (at protein level) (PubMed:12754272)

DNAJB2 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

DNAJB2 Antibody (N-term) Blocking Peptide - Images

DNAJB2 Antibody (N-term) Blocking Peptide - Background

DNAJB2 is involved in heat shock protein and unfolded protein binding.

DNAJB2 Antibody (N-term) Blocking Peptide - References

Claeys, K.G., et al. Am. J. Pathol. 176(6):2901-2910(2010)Starr, J.M., et al. Mech. Ageing Dev. 129(12):745-751(2008)Mahoney, D.J., et al. Am. J. Physiol. Regul. Integr. Comp. Physiol. 294 (6), R1901-R1910 (2008) :Adaimy, L., et al. Am. J. Hum. Genet. 81(4):821-828(2007)Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)