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DNAJC2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9885c

Specification

DNAJC2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q99543

DNAJC2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 27000

Other Names
DnaJ homolog subfamily C member 2, M-phase phosphoprotein 11, Zuotin-related factor 1, DnaJ homolog subfamily C member 2, N-terminally processed, DNAJC2, MPHOSPH11, MPP11, ZRF1

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.

DNAJC2 Antibody (Center) Blocking Peptide - Protein Information

Name DNAJC2

Synonyms MPHOSPH11, MPP11, ZRF1

Function
Acts both as a chaperone in the cytosol and as a chromatin regulator in the nucleus. When cytosolic, acts as a molecular chaperone: component of the ribosome-associated complex (RAC), a complex involved in folding or maintaining nascent polypeptides in a folding-competent state. In the RAC complex, stimulates the ATPase activity of the ribosome-associated pool of Hsp70-type chaperones HSPA14 that bind to the nascent polypeptide chain. When nuclear, mediates the switching from polycomb-repressed genes to an active state: specifically recruited at histone H2A ubiquitinated at 'Lys-119' (H2AK119ub), and promotes the displacement of the polycomb PRC1 complex from chromatin, thereby facilitating transcription activation.

Cellular Location
Nucleus. Cytoplasm, cytosol

Tissue Location
Widely expressed..

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DNAJC2 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

DNAJC2 Antibody (Center) Blocking Peptide - Images

DNAJC2 Antibody (Center) Blocking Peptide - Background

This gene is a member of the M-phase phosphoprotein (MPP) family. The gene encodes a phosphoprotein with a J domain and a Myb DNA-binding domain which localizes to both the nucleus and the cytosol. The protein is capable of forming a heterodimeric complex that associates with ribosomes, acting as a molecular chaperone for nascent polypeptide chains as they exit the ribosome. This protein was identified as a leukemia-associated antigen and expression of the gene is upregulated in leukemic blasts. Also, chromosomal aberrations involving this gene are associated with primary head and neck squamous cell tumors. This gene has a pseudogene on chromosome 6.

DNAJC2 Antibody (Center) Blocking Peptide - References

Hatzold, J., et al. PLoS Biol. 6 (4), E84 (2008) :Olsen, J.V., et al. Cell 127(3):635-648(2006)Otto, H., et al. Proc. Natl. Acad. Sci. U.S.A. 102(29):10064-10069(2005)