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DHX37 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP1929b

Specification

DHX37 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q8IY37

DHX37 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 57647

Other Names
Probable ATP-dependent RNA helicase DHX37, DEAH box protein 37, DHX37, DDX37, KIAA1517

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1929b was selected from the C-term region of human DHX37. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

DHX37 Antibody (C-term) Blocking Peptide - Protein Information

Name DHX37 (HGNC:17210)

Synonyms DDX37, KIAA1517

Function
ATP-binding RNA helicase that plays a role in maturation of the small ribosomal subunit in ribosome biogenesis (PubMed:30582406). Required for the release of the U3 snoRNP from pre-ribosomal particles (PubMed:30582406). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:<a href="http://www.uniprot.org/citations/34516797"

target="_blank">34516797). Plays a role in early testis development (PubMed:31287541, PubMed:31337883). Probably also plays a role in brain development (PubMed:31256877).

Cellular Location
Nucleus, nucleolus. Cytoplasm. Nucleus membrane

Tissue Location
Expressed in the fallopian tube, ovary, uterus and testis. Also expressed in the brain.

DHX37 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

DHX37 Antibody (C-term) Blocking Peptide - Images

DHX37 Antibody (C-term) Blocking Peptide - Background

DHX37 is a DEAD box protein. DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division.

DHX37 Antibody (C-term) Blocking Peptide - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).