

HABP4 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9550b**Specification**

HABP4 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q5JVS0](#)**HABP4 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 22927**Other Names**

Intracellular hyaluronan-binding protein 4, IHABP-4, IHABP4, Ki-1/57 intracellular antigen, HABP4
(http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=17062)
HGNC:17062

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.

HABP4 Antibody (Center) Blocking Peptide - Protein Information**Name** HABP4 ([HGNC:17062](#))**Function**

Ribosome-binding protein that promotes ribosome hibernation, a process during which ribosomes are stabilized in an inactive state and preserved from proteasomal degradation (By similarity). Acts via its association with EEF2/eEF2 factor at the A-site of the ribosome, promoting ribosome stabilization in an inactive state compatible with storage (By similarity). Plays a key role in ribosome hibernation in the mature oocyte by promoting ribosome stabilization (By similarity). Ribosomes, which are produced in large quantities during oogenesis, are stored and translationally repressed in the oocyte and early embryo (By similarity). Also binds RNA, regulating transcription and pre-mRNA splicing (PubMed:[14699138](http://www.uniprot.org/citations/14699138), PubMed:[16455055](http://www.uniprot.org/citations/16455055), PubMed:[21771594](http://www.uniprot.org/citations/21771594), PubMed:[19523114](http://www.uniprot.org/citations/19523114)). Binds (via C-terminus) to poly(U) RNA (PubMed:[19523114](http://www.uniprot.org/citations/19523114)). Seems to play a role in PML-nuclear bodies formation (PubMed:[28695742](http://www.uniprot.org/citations/28695742)). Negatively regulates DNA-binding activity of the transcription factor MEF2C in myocardial cells in response to

mechanical stress (By similarity).

Cellular Location

Nucleus. Cytoplasm. Cytoplasm, Stress granule. Cytoplasm, sarcoplasm {ECO:0000250|UniProtKB:A1L1K8}. Nucleus, nuclear body. Nucleus, nucleolus. Nucleus speckle. Nucleus, Cajal body. Nucleus, gem. Note=Transported into the nuclear compartment in activated leukocytes (PubMed:9523163). Inhibition of methylation alters its distribution between the nuclear and cytoplasmic compartments (PubMed:16879614, PubMed:19523114). Methylation may be required for its localization in subnuclear structures, such as nucleoli, nuclear speckles, Cajal bodies and Gemini of coiled bodies (gems) (PubMed:19523114). Colocalizes with FMR1, FXR1 and FXR2 in cytoplasmic stress granules (PubMed:21771594). In myocardial cells, localization at the sarcoplasm is reduced in response to mechanical stress (By similarity). {ECO:0000250|UniProtKB:A1L1K8, ECO:0000269|PubMed:16879614, ECO:0000269|PubMed:19523114, ECO:0000269|PubMed:21771594, ECO:0000269|PubMed:9523163}

Tissue Location

Highly expressed in brain, heart, and kidney, and moderately expressed in skeletal muscle. Also expressed in a variety of tumor cell lines and in activated but not resting leukocytes

HABP4 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HABP4 Antibody (Center) Blocking Peptide - Images

HABP4 Antibody (Center) Blocking Peptide - Background

May be involved in nuclear functions such as the remodeling of chromatin and the regulation of transcription.

HABP4 Antibody (Center) Blocking Peptide - References

ressan, G.C., et al. FEBS J. 276(14):3770-3783(2009)ressan, G.C., et al. J. Proteome Res. 7(10):4465-4474(2008)assos, D.O., et al. FEBS J. 273(17):3946-3961(2006)ery, F.C., et al. Biochem. Biophys. Res. Commun. 341(3):847-855(2006)telzl, U., et al. Cell 122(6):957-968(2005)ery, F.C., et al. J. Biol. Chem. 279(12):11444-11455(2004)