

HABP4 Rabbit pAb

Catalog # AP96170

Product Information

Application	WB
Primary Accession	Q5JVS0
Other Accession	Q5JVS0
Reactivity	Rat, Mouse
Predicted	Pig, Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45785
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HABP4
Epitope Specificity	41-140/413
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus. Note=Transported into the nuclear compartment in activated leukocytes.
SUBUNIT	Interacts with the C-terminus of CHD3. Interacts via its C-terminal region with GNB2L1. Interacts with p53/TP53.
Post-translational modifications	Phosphorylated by phorbol 12-myristate 13-acetate (PMA)-activated PKC isoforms at Thr-354 and Thr-375 (Probable).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The intracellular hyaluronan-binding protein 4 is a cytoplasmic and nuclear protein that is phosphorylated on serine and threonine residues. HABP4 is expressed as a protein of 413 amino acids and is phosphorylated by phorbol 12-myristate 13-acetate (PMA)-activated PKC isoforms at Thr-354 and Thr-375. HABP4 interacts with hyaluron, the adaptor protein RACK1, the transcription factor MEF2C and the chromatin remodeling factor CHD3, suggesting that it may be involved in the regulation of transcription. However, its actual function has yet to be elucidated. HABP4 is highly expressed in brain, heart, and kidney and is moderately expressed in skeletal muscle. Also, HABP4 is expressed in a variety of tumor cell lines and in activated, but not resting, leukocytes.

Additional Information

Gene ID	22927
Other Names	IHABP-4; IHABP4; Ki-1/57; SERBP1L; HABP4_HUMAN; HABP4; Hyaluronan-binding protein 4; Ki-1/57 intracellular antigen; hyaluronan binding protein 4 Highly expressed in brain, heart, and kidney, and moderately expressed in

Target/Specificity	skeletal muscle. Also expressed in a variety of tumor cell lines and in activated but not resting leukocytes.
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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 , PubMed: 16455055 , PubMed: 19523114 , PubMed: 21771594). Binds (via C-terminus) to poly(U) RNA (PubMed: 19523114). Seems to play a role in PML-nuclear bodies formation (PubMed: 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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.