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JLP/MAX binding protein Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54804

Specification

JLP/MAX binding protein Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	O60271
Reactivity	**Rat, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**146 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human JLP/JIP-4**
Epitope Specificity	**101-188/1321**
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. Cytoplasm, perinuclear region. Note: Perinuclear distribution in response to stress signals such as UV radiation.**
SIMILARITY	**Belongs to the JIP scaffold family.**
SUBUNIT	**Homooligomer. Interacts with MAX, MAPK8, MAPK9, MAPK10, MAPK14, MAP3K3, MYC, KNS2 and MAP2K4. Interaction with KNS2 is important in the formation of ternary complex with MAPK8. Interacts with NFKB1.**
Post-translational modifications	**Phosphorylated by MAPK8 and MAPK14 (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
JIP-4 is a 1,321 amino acid protein encoded by the human gene SPAG9. It contains a large N-terminal extracellular domain, a short transmembrane helical domain, and a cytoplasmic domain. There are 6 N-glycosylation sites, several phosphorylation sites for cAMP/cGMP-dependent protein kinase, protein kinase C, and casein kinase II, and 10 putative myristoylation sites. There is also a leucine zipper motif, with 6 leucine repeats, that may aid in dimerization since there is no upstream basic domain characteristic of DNA binding proteins. The JNK-interacting protein (JIP) group of scaffold proteins selectively mediates JNK signaling by aggregating specific components of the MAPK cascade to form a functional JNK signaling module. JIP-4 is a cytoplasmic, perinuclear protein that has eight known isoforms whose expression varies by tissue and disease state.

JLP/MAX binding protein Polyclonal Antibody - Additional Information

Gene ID 9043

Other Names
C-Jun-amino-terminal kinase-interacting protein 4, JIP-4, JNK-interacting protein 4, Cancer/testis antigen 89, CT89, Human lung cancer oncogene 6 protein, HLC-6, JNK-associated leucine-zipper protein, JLP, Mitogen-activated protein kinase 8-interacting protein 4, Proliferation-inducing protein 6, Protein highly expressed in testis, PHET, Sperm surface protein, Sperm-associated antigen 9, Sperm-specific protein, Sunday driver 1, SPAG9 (HGNC:14524)

Target/Specificity
Isoform 5 is expressed only in testis on the round spermatids of stage I, II and II. Isoform 5 is absent in spermatogonia and spermatocyte. Isoform 3 is expressed in testis. Isoform 4 is expressed in testis and in acute myeloid leukemia (AML) patients.

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

JLP/MAX binding protein Polyclonal Antibody - Protein Information

Name SPAG9 (HGNC:14524)

Function
The JNK-interacting protein (JIP) group of scaffold proteins selectively mediates JNK signaling by aggregating specific components of the MAPK cascade to form a functional JNK signaling module (PubMed:14743216). Regulates lysosomal positioning by acting as an adapter protein which links PIP4P1-positive lysosomes to the dynein- dynactin complex (PubMed:29146937). Assists PIKFYVE selective functionality in microtubule-based endosome-to-TGN trafficking (By similarity).

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q58A65}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q58A65}. Lysosome membrane. Note=Perinuclear distribution in response to stress signals such as UV radiation {ECO:0000250|UniProtKB:Q58A65}

Tissue Location
Expressed only in testis on the round spermatids of stage I, II and II. Absent in spermatogonia and spermatocyte [Isoform 3]: Expressed in testis.

JLP/MAX binding protein Polyclonal Antibody - Protocols

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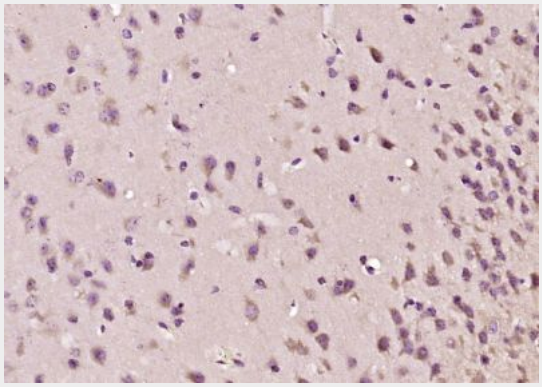
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

JLP/MAX binding protein Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (JLP MAX binding protein) Polyclonal Antibody, Unconjugated (bs-12270R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.