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[Marker Primary Antibody]

Rabbit Anti-JLP/MAX binding protein/FITC Conjugated antibody

Catalog Number: SL12270R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-JLP/MAX binding protein/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human JLP/JIP-4 (101-188aa)
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Chicken,Dog,Horse,Sheep)
Background:	background: 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. **Function:** JLP is a member of the JNK-interacting protein (JIP) group of scaffold proteins which selectively mediate JNK signaling by aggregating specific components of the MAPK cascade to form a functional JNK signaling

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	module. **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. **Subcellular Location:** Cytoplasm. Cytoplasm, perinuclear region. **Note:** Perinuclear distribution in response to stress signals such as UV radiation. **Tissue 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. **Post-translational modifications:** Phosphorylated by MAPK8 and MAPK14 (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR. **Similarity:** Belongs to the JIP scaffold family. **Database links:** **Entrez Gene:** 9043 Human **Entrez Gene:** 70834 Mouse Omim: 605430 Human **SwissProt:** O60271 Human **SwissProt:** Q58A65 Mouse **Unigene:** 500367 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.