

Rabbit JIP1 Polyclonal Antibody | anti-JIP1 antibody

Phospho-JIP1 (Thr103) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327655	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

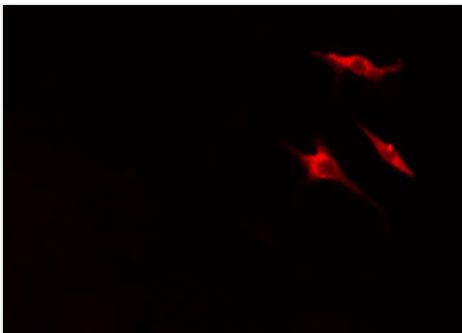
PRODUCT SYNONYMS

JIP1; Polyclonal Antibody; Phospho-JIP1 (Thr103) Antibody; C jun amino terminal kinase interacting protein 1; C-jun-amino-terminal kinase-interacting protein 1; IB 1; IB-1; IB1; Islet brain 1; Islet-brain 1; JIP 1; JIP-1; JIP1_HUMAN; JNK interacting protein 1; JNK MAP kinase scaffold protein 1; JNK-interacting protein 1; MAPK8IP 1; MAPK8IP1; MAPK8IP1 mitogen-activated protein kinase 8 interacting protein 1; Mitogen activated protein kinase 8 interacting protein 1; Mitogen-activated protein kinase 8-interacting protein 1; PRKM8; PRKM8 interacting protein; PRKM8IP; anti-JIP1 antibody

PRODUCT SPECIFICATIONS

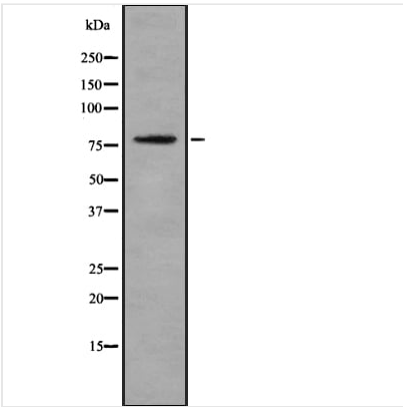
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-JIP1 (Thr103) antibody detects endogenous levels of JIP1 only when phosphorylated at Thr103
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	711
Applicable Applications for anti-JIP1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Phospho-JIP1 (Thr103)
Subcellular Location	Cytoplasmic. Accumulates in cell surface projections. Under certain stress conditions, translocates to the perinuclear region of neurons. In insulin-secreting cells, detected in both the cytoplasm and nucleus
Tissue Specificity	Highly expressed in brain. Expressed in neurons, localizing to neurite tips in differentiating cells. Also expressed in the pancreas, testis and prostate. Low levels in heart, ovary and small intestine. Decreased levels in pancreatic beta cells sensitize cells to IL-1-beta-induced apoptosis.
Conjugation	Unconjugated
Epitope	Phospho Thr103
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA327655 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of Phospho-JIP1 (Thr103) using K562 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-JIP1 antibody

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. Required for JNK activation in response to excitotoxic stress. Cytoplasmic MAPK8IP1 causes inhibition of JNK-regulated activity by retaining JNK in the cytoplasm and inhibiting JNK phosphorylation of c-Jun. May also participate in ApoER2-specific reelin signaling. Directly, or indirectly, regulates GLUT2 gene expression and beta-cell function. Appears to have a role in cell signaling in mature and developing nerve terminals. May function as a regulator of vesicle transport, through interactions with the JNK-signaling components and motor proteins (By similarity). Functions as an anti-apoptotic protein and whose level seems to influence the beta-cell death or survival response.

Subunit Structure: Forms homo- or heterooligomeric complexes. Binds specific components of the JNK signaling pathway namely, MAPK8, MAPK9, MAPK10, MAPKK7, MLK2, MLK3, MAP3K12 and MAP3K13. Also binds the proline-rich domain-containing splice variant of apolipoprotein E receptor 2 (ApoER2). Interacts, via the PID domain, with ARHGEF28. Binds the cytoplasmic tails of LRP1 and LRP2 (Megalin). Binds the TPR motif-containing C-terminal of KNS2, then the pre-assembled MAPK8IP1 scaffolding complexes are transported as a cargo of kinesin, to the required subcellular location. Interacts with the cytoplasmic domain of APP. Interacts with DCLK2 (By similarity). Interacts with MAP3K7. Interacts with isoform 1 and isoform 2 of VRK2.

Post-translational Modifications: Phosphorylated by MAPK8, MAPK9 and MAPK10. Phosphorylation on Thr-103 is also necessary for the dissociation and activation of MAP3K12. Phosphorylated by isoform 1 and isoform 2 of VRK2. Hyperphosphorylated during mitosis following activation of stress-activated and MAP kinases. Ubiquitinated. Two preliminary events are required to prime for ubiquitination; phosphorylation and an increased intracellular calcium concentration. Then, the calcium influx initiates ubiquitination and degradation by the ubiquitin-proteasome pathway.

Similarity: The destruction boxes (D-box) may act as recognition signals for degradation via the ubiquitin-proteasome pathway. A minimal inhibitory domain prevents pancreatic beta cell apoptosis in vitro, and prevents activation of c-jun by MAPK8, MAPK9 and MAPK10. The SH3 domain mediates homodimerization. Belongs to the JIP scaffold family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885433
NCBI GeneID	9479
NCBI Accession #	NP_005447.1
NCBI GenBank Nucleotide #	NM_005456.3
UniProt Accession #	Q9UQF2; O43407; D3DQP4
Molecular Weight	Observed: 77 kDa Predicted: 78 kDa
NCBI Official Full Name	C-Jun-amino-terminal kinase-interacting protein 1

NCBI Official Synonym Full Names	mitogen-activated protein kinase 8 interacting protein 1
NCBI Official Symbol	MAPK8IP1
NCBI Official Synonym Symbols	IB1; JIP1; JIP-1; PRKM8IP
NCBI Protein Information	C-Jun-amino-terminal kinase-interacting protein 1
UniProt Protein Name	C-Jun-amino-terminal kinase-interacting protein 1
UniProt Gene Name	MAPK8IP1
UniProt Synonym Gene Names	IB1; JIP1; PRKM8IP; JIP-1; JNK-interacting protein 1; IB-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/jip1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/327655>