



JIP-3 Polyclonal Antibody

Catalog No	BYab-03939
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	MAPK8IP3
Protein Name	C-Jun-amino-terminal kinase-interacting protein 3
Immunogen	The antiserum was produced against synthesized peptide derived from human JIP3. AA range:621-670
Specificity	JIP-3 Polyclonal Antibody detects endogenous levels of JIP-3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MAPK8IP3; JIP3; KIAA1066; C-Jun-amino-terminal kinase-interacting protein 3; JIP-3; JNK-interacting protein 3; JNK MAP kinase scaffold protein 3; Mitogen-activated protein kinase 8-interacting protein 3
Observed Band	170kD
Cell Pathway	Cytoplasm . Golgi apparatus . Cytoplasmic vesicle . Cell projection, growth cone . Cell projection, axon . Cell projection, dendrite . Cytoplasm, perinuclear region . Localized in the soma and growth cones of differentiated neurites and the Golgi and vesicles of the early secretory compartment of epithelial cells. KIF5A/B/C-mediated transportation to axon tips is essential for its function in enhancing neuronal axon elongation. .
Tissue Specificity	Brain,Epithelium,Melanoma,Spleen,
Function	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. May function as a regulator of

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vesicle transport, through interactions with the JNK-signaling components and motor proteins.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the JIP scaffold family.,subunit:Forms homo- or heterooligomeric complexes. The central region of MAPK8IP3 interacts with the C-terminal of MAPK8IP2 but not MAPK8IP1. Binds specific components of the JNK signaling pathway namely MAPK8, MAPK9 and MAPK10 to the N-terminal region, MAP2K4 and MAP2K7 to the central region and MAP3K11 to the C-terminal region. Binds the TPR motif-containing C-terminal of kinesin light chain, KLC1. Pre-assembled MAPK8IP1 scaffolding complexes are then transpor

Background

The protein encoded by this gene shares similarity with the product of *Drosophila syd* gene, required for the functional interaction of kinesin I with axonal cargo. Studies of the similar gene in mouse suggested that this protein may interact with, and regulate the activity of numerous protein kinases of the JNK signaling pathway, and thus function as a scaffold protein in neuronal cells. The *C. elegans* counterpart of this gene is found to regulate synaptic vesicle transport possibly by integrating JNK signaling and kinesin-1 transport. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

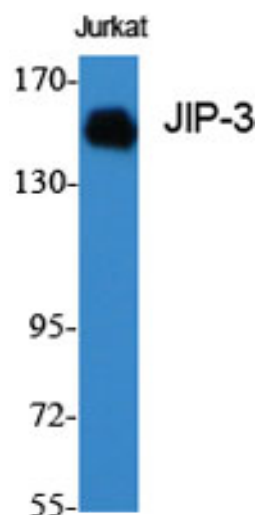
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



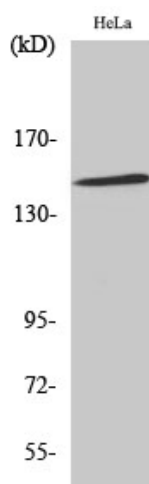
Products Images

(kD)

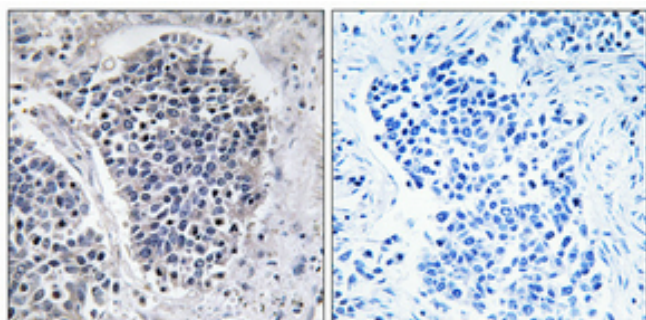


Western Blot analysis of various cells using JIP-3
Polyclonal Antibody diluted at 1:1000

(kD)



Western Blot analysis of HeLa cells using JIP-3
Polyclonal Antibody diluted at 1:1000



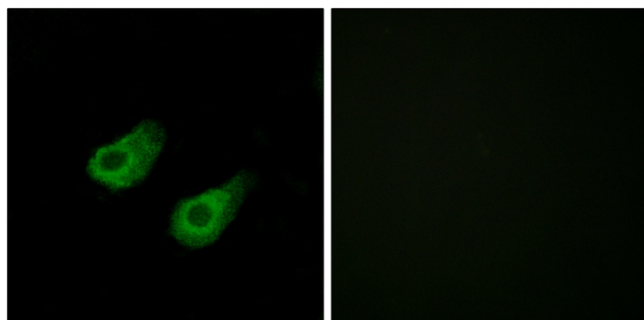
Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.

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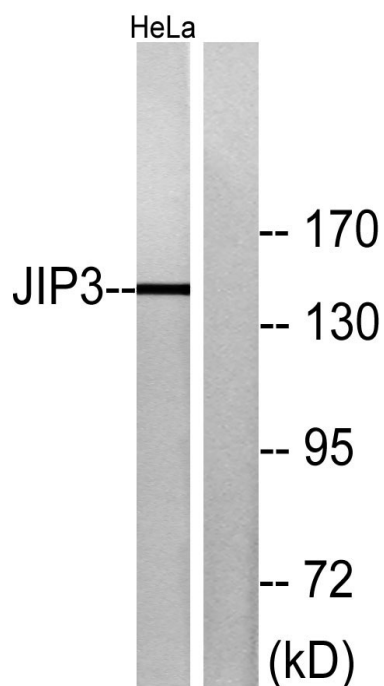
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Immunofluorescence analysis of HeLa cells, using JIP3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using JIP3 Antibody. The lane on the right is blocked with the synthesized peptide.