

Goat Anti-JIP1 / MAPK8IP1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF4322a**Specification**

Goat Anti-JIP1 / MAPK8IP1 Antibody - Product Information

Application	WB, E
Primary Accession	O9UQF2
Other Accession	NP_005447.1
Reactivity	Human
Predicted	Human, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	77524

Goat Anti-JIP1 / MAPK8IP1 Antibody - Additional Information**Gene ID** 9479**Other Names**

C-Jun-amino-terminal kinase-interacting protein 1, JIP-1, JNK-interacting protein 1, Islet-brain 1, IB-1, JNK MAP kinase scaffold protein 1, Mitogen-activated protein kinase 8-interacting protein 1, MAPK8IP1, IB1, JIP1, PRKM8IP

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Immunogen

Peptide with sequence DSQEAKGNKCSH, from the internal region of the protein sequence according to NP_005447.1.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-JIP1 / MAPK8IP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-JIP1 / MAPK8IP1 Antibody - Protein Information

Name MAPK8IP1

Synonyms IB1, JIP1, PRKM8IP

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. Functions as an anti-apoptotic protein and whose level seems to influence the beta-cell death or survival response. Acts as a scaffold protein that coordinates with SH3RF1 in organizing different components of the JNK pathway, including RAC1 or RAC2, MAP3K11/MLK3 or MAP3K7/TAK1, MAP2K7/MKK7, MAPK8/JNK1 and/or MAPK9/JNK2 into a functional multiprotein complex to ensure the effective activation of the JNK signaling pathway. Regulates the activation of MAPK8/JNK1 and differentiation of CD8(+) T-cells.

Cellular Location

Cytoplasm. Cytoplasm, perinuclear region. Nucleus. Endoplasmic reticulum membrane. Mitochondrion membrane. Note=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 (By similarity).

Tissue Location

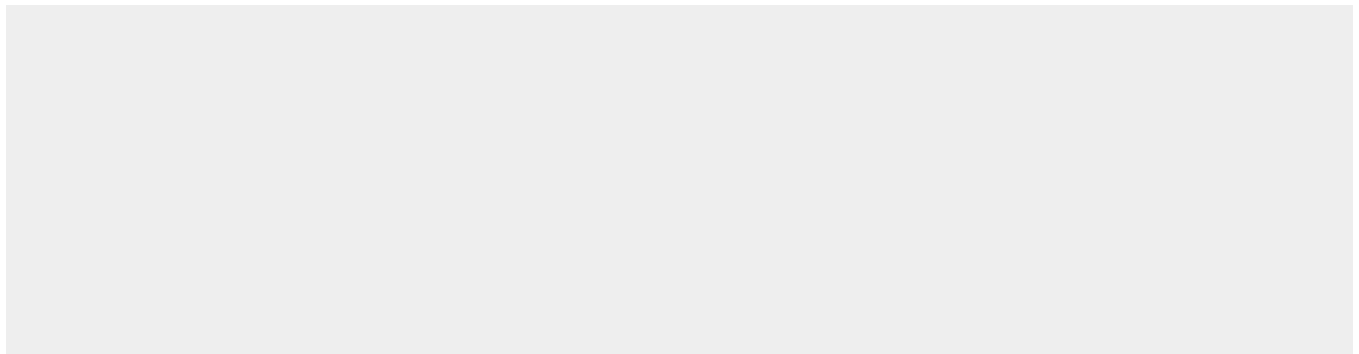
Highly expressed in brain. Expressed in neurons, localizing to neurite tips in differentiating cells. Also expressed in the pancreas, testis and prostate. Low levels in heart, ovary and small intestine. Decreased levels in pancreatic beta cells sensitize cells to IL-1-beta-induced apoptosis

Goat Anti-JIP1 / MAPK8IP1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-JIP1 / MAPK8IP1 Antibody - Images





AF4322a (1 $\mu\text{g/ml}$) staining of Human Amygdala (A) and Cerebellum (B) lysate (35 μg protein in RIPA buffer). Detected by chemiluminescence.