

JIP2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55231

Specification

JIP2 Polyclonal Antibody - Product Information

Application **Primary Accession** Reactivity

Host Clonality Calculated MW **Physical State**

Immunogen

Epitope Specificity

Isotype **Purity**

affinity purified by Protein A

0.01M TBS (pH7.4) with 1% BSA, 0.02%

KLH conjugated synthetic peptide derived

Proclin300 and 50% Glycerol.

WB, IHC-P, IHC-F, IF, ICC, E

SUBCELLULAR LOCATION Cytoplasm. Accumulates in cell surface

projections.

013387

Rabbit

88 KDa

Liquid

laG

Rat, Bovine

Polyclonal

from human JIP2 31-130/824

Belongs to the JIP scaffold family. Contains **SIMILARITY**

> 1 PID domain. Contains 1 SH3 domain. This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Buffer

Important Note

Background Descriptions

c-Jun NH2-terminal kinases (JNKs) are distant members of the MAP kinase family (1). JNK1 is activated by dual phosphorylation at a Thr-Pro-Tyr motif in response to ultraviolet (UV) light, and it functions to phosphorylate c-Jun at amino terminal serine regulatory sites, Ser-63 and Ser-73, resulting in transcriptional activation (2-5). Two additional JNK family members have been identified as JNK2 and JNK3 (3). JIP-1 (for JNK interacting protein-1) has been identified as a cytoplasmic inhibitor of JNK that retains JNK in the cytoplasm, thereby inhibiting JNK-regulated gene expression. Evidence suggests that JNK1 and JNK2 bind to JIP-1 with greater affinity than to ATF-2 and c-Jun, which are targets of the JNK signaling pathway. JIP-1 contains an amino terminal INK binding domain and a carboxy terminal SH3 domain. ATF-2 and c-Jun also contain the INK binding domain and are thought to compete with JIP-1 for JNK binding (6). Multiple splice variants if JIP-1, including JIP-1b, JIP-1c (also designated islet-brain 1 or IB-1), JIP-2a, JIP-2b and JIP-3, have been identified in brain (7).

JIP2 Polyclonal Antibody - Additional Information

Gene ID 23542

Other Names

C-Jun-amino-terminal kinase-interacting protein 2, JIP-2, JNK-interacting protein 2, Islet-brain-2,



IB-2, JNK MAP kinase scaffold protein 2, Mitogen-activated protein kinase 8-interacting protein 2, MAPK8IP2, IB2, JIP2, PRKM8IPL

Target/Specificity

Expressed mainly in the brain and pancreas, including insulin-secreting cells. In the nervous system, more abundantly expressed in the cerebellum, pituitary gland, occipital lobe and the amygdala. Also expressed in fetal brain. Very low levels found in uterus, ovary, prostate, colon, testis, adrenal gland, thyroid gland and salivary gland.

Dilution

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<span class ="dilution_WB">WB~~1:1000</span><br \><span class
="dilution_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution_IF">IF~~1:50~200</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span>
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Storage

Store at -20 °C 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 °C.

JIP2 Polyclonal Antibody - Protein Information

Name MAPK8IP2

Synonyms IB2, JIP2, PRKM8IPL

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. JIP2 inhibits IL1 beta-induced apoptosis in insulin-secreting cells. May function as a regulator of vesicle transport, through interactions with the JNK-signaling components and motor proteins (By similarity).

Cellular Location

Cytoplasm. Note=Accumulates in cell surface projections

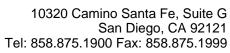
Tissue Location

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JIP2 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety





• Cell Culture JIP2 Polyclonal Antibody - Images