

JIP2 Rabbit pAb

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Product Information

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

Primary Accession <u>Q13387</u>

Predicted Human, Mouse, Rat, Horse

Host Rabbit
Clonality Polyclonal
Calculated MW 87975
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human JIP2

Epitope Specificity 31-130/824

Isotype IgG

Purity affinity purified by Protein A

Buffer

SUBCELLULAR LOCATION

SIMILARITY

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Cytoplasm. Accumulates in cell surface projections.

Belongs to the JIP scaffold family. Contains 1 PID domain. Contains 1 SH3

domain.

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

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 JNK binding domain and a carboxy terminal SH3 domain. ATF-2 and c-Jun also contain the JNK 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).

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 WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-

500,ELISA=1:5000-10000

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.

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 Expressed mainly in the brain and pancreas, including insulin-secreting cells.

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.