

JIP1 Polyclonal Antibody

CATALOG NO:	3664-30T 30 µg (Trial size)
	3664-100 100 µg
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide from mouse JIP1 (ID# BV-119)
SPECIES REACTIVITY:	Mouse, Rat, Human

FORMULATION:

0.5 g/ml protein A purified rabbit anti-JIP1 polyclonal antibody in phosphate-buffered saline (PBS) containing 0.5% BSA, 30% glycerol, 5 mM EDTA and 0.03% proclin

STORAGE CONDITIONS:

Store at -20° C. For long term storage, aliquot and freeze at -70° C. Avoid repeated freeze/thaw cycles.

DESCRIPTION:

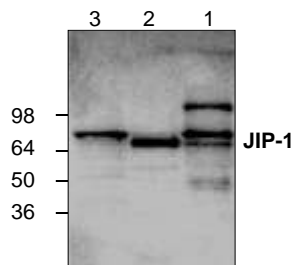
JIP1 (JNK-interacting protein-1) is a cytoplasmic protein that possesses an N-terminal JNK-binding domain and a C-terminal SRC homology 3 (SH3) domain. JIP1 selectively binds to JNK, but not to the ERK or p38 MAP kinases. In addition to JNK, JIP1 binds to specific proteins of JNK pathways, including MKK7, MLK3, and DLK, all at separate binding sites. JIP1 has been identified in brain and kidney tissues, whereas JIP2a, JIP2b, and JIP3 are specifically expressed in the brain. Overexpression of JIP1 causes cytoplasmic retention of JNK, thereby preventing its nuclear accumulation and the subsequent activation of the JNK pathways, indicating that JIP1 acts as a cytoplasmic anchor for JNK.

SPECIFICITY:

The antibody recognizes 78 kDa JIP1 in samples from mouse, rat and human origins. In human sample, a ~110 kDa isoform can also be observed. Reactivity to other species has not been tested.

APPLICATION:

The antibody can be used for Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually.



Cat.# 3664-100
Western blot analysis of JIP-1 in Jurkat cell lysate (Lane 1), mouse intestine (Lane 2) and rat kidney (Lane 3) tissue lysates

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