
anti-p-JNK1,2,3

Cat #: HM1207
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

The mitogen-activated protein (MAP) kinases ERK 1 and ERK 2 are proline-directed kinases that are activated through concomitant phosphorylation of tyrosine and threonine residues. The JNK family, which includes JNK1, JNK2, and JNK3, is distantly related to the MAP kinase family, members of which are activated by dual phosphorylation at a Thr-Pro-Tyr motif, specifically at Thr- and Tyr-185 residues, in response to ultraviolet (UV) light. This motif is divergent from the Thr-Glu-Tyr motif characteristic of the MAP kinase family. JNK is phosphorylated by JNK-activating kinase (JNKK1 and JNKK2), which are members of MEK family. Activated JNK mediates the phosphorylation of c-Jun at the amino terminal serine regulatory sites, Ser-63 and Ser-73, which stimulates the transactivation function of c-Jun.

SPECIFICITY

This antibody specifically reacts with phosphorylated JNK1, JNK2 and JNK3 of mouse, rat and human origin. No cross-reactive with ERK 1, ERK 2 or p38.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

A synthetic peptide corresponding to an amino acid sequence containing phosphorylated Thr-183 and Tyr-185 of JNK1 of human origin (identical to corresponding JNK2 sequence).

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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