

35-1466: Polyclonal Antibody to MKK3 (Ab-189)

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|--------------------------------|---|
| Clonality : | Polyclonal |
| Application : | WB,IHC,IF |
| Reactivity : | Human,Mouse |
| Gene : | MAP2K3 |
| Gene ID : | 5606 |
| Uniprot ID : | P46734 |
| Format : | Purified |
| Alternative Name : | MAP kinase kinase 3, MAP2K3, MAPK/ERK kinase 3, MAPKK 3, MEK3 |
| Isotype : | Rabbit IgG |
| Immunogen Information : | Peptide sequence around aa.187~191 (V-D-S-V-A) derived from Human MKK3. |

Description

MEK3 belongs to MAPKK family. This kinase is activated by mitogenic and environmental stress, and participates in the MAPK-mediated signaling cascade. It phosphorylates and thus activates p38. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of Ras oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of p38, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersinia pseudotuberculosis. Wang W, et al. (2002) Mol Cell Biol ; 22(10): 3389-403. Raingeaud J, et al. (1996) Mol Cell Biol; 16(3): 1247-55.

Product Info

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|----------------------------|--|
| Amount : | 50 µl / 100 µl |
| Content : | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage condition : | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles. |

Application Note

Predicted MW: 40kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100, Immunofluorescence: 1:100~1:200

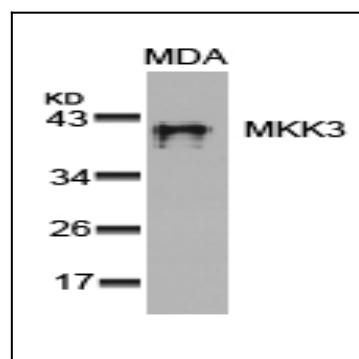


Figure 1: Western blot analysis of extracts from MDA cells using MKK3 (Ab-189) Antibody 35-1466 .

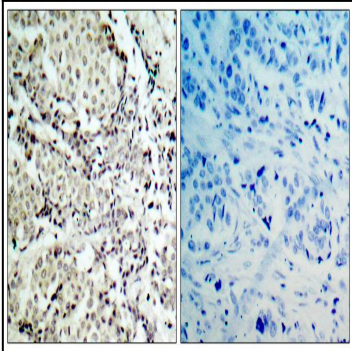


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MKK3 (Ab-189) Antibody 35-1466 (left) or the same antibody preincubated with blocking peptide(right).

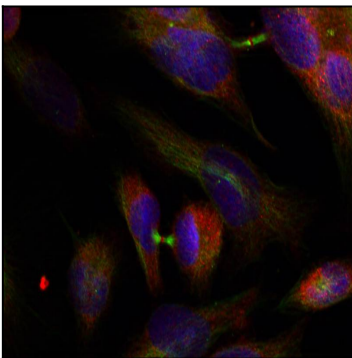


Figure 3: Immunofluorescence staining of methanol-fixed HeLa cells using MKK3 (Ab-189) Antibody 35-1466 .