

# Monoclonal Antibody to MAP2K4

Cat. #: Mab-606111

## Description:

MAP2K4(mitogen-activated protein kinase kinase 4), which is located on chromosome 17p11.2, with 399-amino acid protein (about 45 kDa), belongs to the family of protein kinases located upstream of the MAP kinases and responsible for their activation has been identified. MEK-4 (also called MEK4/MKK4) activates both p38 and JNK MAP kinases. MKK4 is a central mediator in the stress activated protein kinase signaling pathway that responds to a number of cellular and environmental stressors. By phosphorylating MAP kinases such as JNK, MKK4 can ultimately transmit stress signals to nuclear transcription factors that mediate various processes including proliferation, apoptosis, and differentiation. Its distinct biological functions have been identified for MKK4 including a role in development, hepatogenesis, and metastasis suppression.

## Immunogen/Specificity:

Ni-NTA purified truncated recombinant MAP2K4 expressed in E. Coli strain BL21 (DE3)

## Applications :

Western Blot: 1: 500- 1: 1,000

IHC(P): 1: 500- 1: 1,000

ELISA: Propose dilution 1: 10,000.

Determining optimal working dilutions by titration test.

## Formulation

Antibodies are purified by protein A affinity chromatography

## Reference:

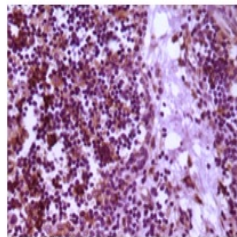
1. Crews, C.M, et al. 1992. Science. 258: 478-480.
2. Cuenda A. 2000. Int. J. Biochem. Cell Biol, 32: 581-587.
3. Kim H. L, Vander Griend D. J, Yang X, et al. 2001. Cancer Res. 61: 2833-2837.

Clone Number 2D10D8,4G11B2

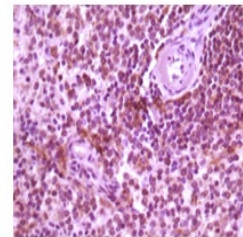
Isotype: IgM

Species: Human

Storage and Stability: stored at -20 C



Human thymoma tissue



Human spleen tissue

**Figure 2:** Immunohistochemical analysis of paraffin-embedded lymphocyte of human thymoma tissue and human spleen tissue showing cytoplasmic localization using MAP2K4 with DAB staining.