

#### ASK1 Rabbit mAb

**Catalog # AP75111** 

## Specification

#### **ASK1** Rabbit mAb - Product Information

**Application Primary Accession** Reactivity Host Clonality Calculated MW

**WB** 099683 Human Rabbit **Monoclonal Antibody** 

154537

# **ASK1 Rabbit mAb - Additional Information**

**Gene ID 4217** 

**Other Names** MAP3K5

Dilution

WB~~1/500-1/1000

## **Format**

50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## **ASK1 Rabbit mAb - Protein Information**

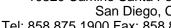
Name MAP3K5

Synonyms ASK1, MAPKKK5, MEKK5

### **Function**

Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Mediates signaling for determination of cell fate such as differentiation and survival. Plays a crucial role in the apoptosis signal transduction pathway through mitochondria-dependent caspase activation. MAP3K5/ASK1 is required for the innate immune response, which is essential for host defense against a wide range of pathogens. Mediates signal transduction of various stressors like oxidative stress as well as by receptor-mediated inflammatory signals, such as the tumor necrosis factor (TNF) or lipopolysaccharide (LPS). Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade and the p38 MAPK signal transduction cascade through the phosphorylation and activation of several MAP kinase kinases like MAP2K4/SEK1, MAP2K3/MKK3, MAP2K6/MKK6 and MAP2K7/MKK7. These MAP2Ks in turn activate p38 MAPKs and c-jun N-terminal kinases (JNKs). Both p38 MAPK and JNKs control the transcription factors activator protein-1 (AP-1).







# **Cellular Location**

Cytoplasm. Endoplasmic reticulum. Note=Interaction with 14-3-3 proteins alters the distribution of MAP3K5/ASK1 and restricts it to the perinuclear endoplasmic reticulum region

# **Tissue Location**

Abundantly expressed in heart and pancreas.

# **ASK1** Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# ASK1 Rabbit mAb - Images

