

# Phospho-ASK1-T845 Rabbit mAb

Catalog No.: AP1567 **Recombinant**

## Basic Information

**Observed MW**

155kDa

**Calculated MW**

155kDa

**Category**

Primary antibody

**Applications**

WB,DB,ELISA

**Cross-Reactivity**

Mouse

**CloneNo number**

ARC74836

## Background

Apoptosis signal-regulating kinase 1 (ASK1), a MAP kinase kinase kinase, plays essential roles in stress-induced apoptosis. ASK1 is activated in response to a variety of stress-related stimuli through distinct mechanisms and activates MKK4 and MKK3, which in turn activate JNK and p38. Overexpression of ASK1 activates JNK and p38 and induces apoptosis in several cell types through signals involving the mitochondrial cell death pathway. Embryonic fibroblasts or primary neurons derived from ASK1-/- mice are resistant to stress-induced JNK and p38 activation as well as cell death. Phosphorylation at Ser967 is essential for ASK1 association with 14-3-3 proteins and suppression of cell death. Oxidative stress induces dephosphorylation of Ser967 and phosphorylation of Thr845 in the activation loop of ASK1, both of which are correlated with ASK1 activity and ASK1-dependent apoptosis. Akt phosphorylates ASK1 at Ser83, which attenuates ASK1 activity and promotes cell survival.

## Recommended Dilutions

**WB** 1:5000 - 1:30000**DB** 1:1000 - 1:2000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**

26408

**Swiss Prot**

O35099

**Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**

ASK; ASK1; Mekk5; MAPKKK5; 7420452D20Rik

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data

