

ASK1 Rabbit monoclonal antibody

Catalog: MB66318

Host: Rabbit

Reactivity: Human

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.

Product:

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

Molecular Weight:

~ 155 kDa

Swiss-Prot:

Q99683

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

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

Specificity:

Recognizes endogenous levels of ASK1 protein.

DATA:



Western blot analysis of ASK1 expression in HeLa (A) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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