

Phospho-ASK1-T845 Rabbit mAb

Catalog NO.: AP1567 **Recombinant**

Basic Information

Observed MW

155kDa

Calculated MW

155kDa

Category

Phosphorylated Antibodies

Applications

WB, DB, ELISA

Cross-Reactivity

Mouse

Conjugation

Unconjugated

Clone 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	Swiss Prot
26408	O35099

Immunogen

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

Synonyms

ASK; ASK1; Mekk5; MAPKKK5; 7420452D20Rik

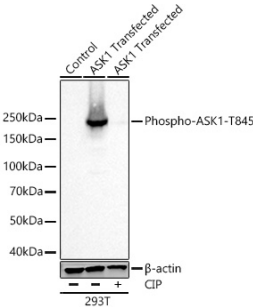
Contact

Product Information

☒		order@abclonal.com
☒		service@abclonal.com
☒		www.abclonal.com

Source	Isotype	Purification
Rabbit	IgG	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



Western blot analysis of lysates from wild type (WT) and 293T cells transfected with ASK1 using Phospho-ASK1-T845 Rabbit mAb (AP1567) at 1:5000 dilution incubated overnight at 4°C.293T cells transfected with ASK1 were treated by CIP (20uL/400ul) at 37°C for 1 hour.

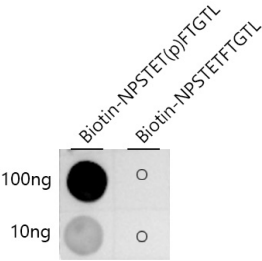
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020)

.Exposure time: 5s.



Dot-blot analysis of all sorts of peptides using Phospho-ASK1-T845 Rabbit mAb (AP1567) at 1:1000 dilution.

