



ASK 1 (phospho Ser83) rabbit pAb

Cat No.:ES6231

For research use only

Overview

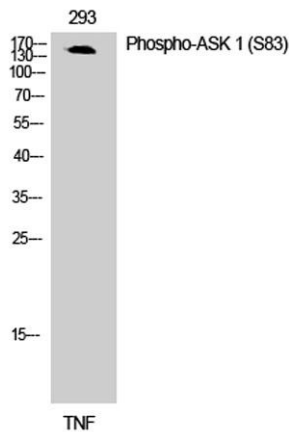
Product Name	ASK 1 (phospho Ser83) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human ASK1 around the phosphorylation site of Ser83. AA range:49-98
Specificity	Phospho-ASK 1 (S83) Polyclonal Antibody detects endogenous levels of ASK 1 protein only when phosphorylated at S83.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Mitogen-activated protein kinase kinase kinase 5
Gene Name	MAP3K5
Cellular localization	Cytoplasm . Endoplasmic reticulum. Interaction with 14-3-3 proteins alters the distribution of MAP3K5/ASK1 and restricts it to the perinuclear endoplasmic reticulum region.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	
Human Gene ID	4217
Human Swiss-Prot Number	Q99683
Alternative Names	MAP3K5; ASK1; MAPKKK5; MEKK5; Mitogen-activated protein kinase kinase kinase 5; Apoptosis signal-regulating kinase 1; ASK-1;





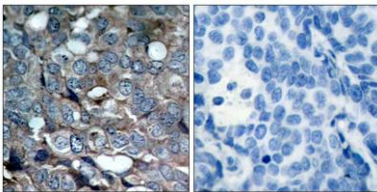
Background

MAPK/ERK kinase kinase 5; MEK kinase 5; MEKK 5 Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are highly conserved, and homologs exist in yeast, Drosophila, and mammalian cells. MAPKKK5 contains 1,374 amino acids with all 11 kinase subdomains. Northern blot analysis shows that MAPKKK5 transcript is abundantly expressed in human heart and pancreas. The MAPKKK5 protein phosphorylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kinase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 cells; MAPKKK5 does not activate MAPK/ERK. [provided by Re



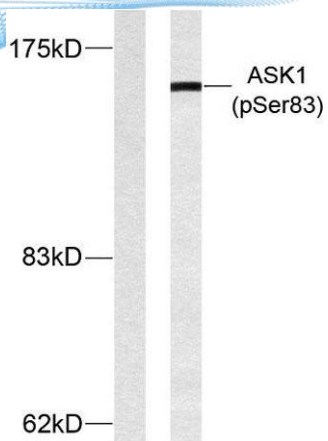
Western Blot analysis of 293 cells using Phospho-ASK 1 (S83) Polyclonal Antibody

Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using ASK1 (Phospho-Ser83) Antibody. The picture on the right is blocked with the phospho peptide.





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Western blot analysis of lysates from MDA-MB-435 cells treated with TNF-alpha, using ASK1 (Phospho-Ser83) Antibody. The lane on the left is blocked with the phospho peptide.



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