

**ASK 1 (phospho Ser83) rabbit pAb****Cat#: orb769106 (Manual)**

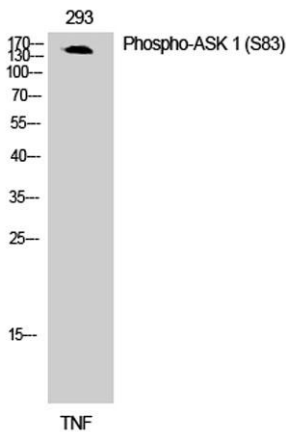
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<b>Product Name</b>	ASK 1 (phospho Ser83) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Rat;Mouse;
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100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

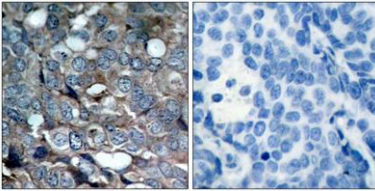
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	
<b>Human Gene ID</b>	4217
<b>Human Swiss-Prot Number</b>	Q99683
<b>Alternative Names</b>	MAP3K5; ASK1; MAPKKK5; MEKK5; Mitogen-activated protein kinase kinase kinase 5; Apoptosis signal-regulating kinase 1; ASK-1; MAPK/ERK kinase kinase 5; MEK kinase 5; MEKK 5

## Background

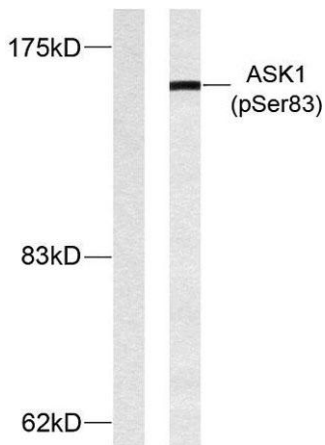
Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates 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.**



**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.**