ASK 1 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	ASK 1, Polyclonal Antibody
Full Product Name	ASK 1 (phospho Ser966) Polyclonal Antibody
Product Gene Name	anti-ASK 1 antibody
Clonality	Polyclonal
Molecular Weight	69,839 Da
OMIM	602448
3D Structure	ModBase 3D Structure for Q99683
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-ASK 1 antibody	MBS8519796 is an antibody targeting ASK 1. Also known as ASK 1 (phospho Ser966) Polyclonal Antibody.
Other Notes	Small volumes of anti-ASK 1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ASK 1. It may not necessarily be applicable to this product.

NCBI GI #	5174547
NCBI GeneID	4217
NCBI Accession #	NP_005914.1
UniProt Primary Accession #	Q99683
UniProt Secondary Accession #	Q5THN3; Q99461; A6NIA0; B4DGB2
UniProt Related Accession #	Q99683
GenBank Nucleotide #	NM_005923.3
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase 5
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase 5
NCBI Official Symbol	MAP3K5
NCBI Official Synonym Symbols	ASK1; MEKK5; MAPKKK5
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase 5
UniProt Synonym Protein Names	Apoptosis signal-regulating kinase 1; ASK-1; MAPK/ERK kinase kinase 5; MEK kinase 5; MEKK 5
Protein Family	Mitogen-activated protein kinase kinase kinase
UniProt Gene Name	MAP3K5
UniProt Synonym Gene Names	ASK1; MAPKKK5; MEKK5; ASK-1; MEK kinase 5; MEKK 5
NCBI Protein Information	mitogen-activated protein kinase kinase kinase 5

NCBI Summary for ASK 1	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 RefSeq, Jul 2008]
UniProt Comments for ASK 1	Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Mediates signaling for determination of cell fate such as differentiation and survival. Plays a crucial role in the apoptosis signal transduction pathway through mitochondria-dependent caspase activation. MAP3K5/ASK1 is required for the innate immune response, which is essential for host defense against a wide range of pathogens. Mediates signal transduction of various stressors like oxidative stress as well as by receptor-mediated inflammatory signals, such as the tumor necrosis factor (TNF) or lipopolysaccharide (LPS). Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade and the p38 MAPK signal transduction cascade through the phosphorylation and activation of several MAP kinase kinases like MAP2K4/SEK1, MAP2K3/MKK3, MAP2K6/MKK6 and MAP2K7/MKK7. These MAP2Ks in turn activate p38 MAPKs and c-jun N-terminal kinases (JNKs). Both p38 MAPK and JNKs control the transcription factors activator protein-1 (AP-1).
Research Articles on ASK 1	**1.** Findings provide evidence that ASK-1 expression is regulated by SLC35F2 which exerts its oncogenic effect on papillary thyroid carcinoma progression through activation of TGFBR-1 and ASK-1.
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