

ASK1 Rabbit mAb

Catalog # AP75111

Product Information

Application	WB
Primary Accession	Q99683
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	154537

Additional Information

Gene ID	4217
Other Names	MAP3K5
Dilution	WB~~1/500-1/1000
Format	Liquid

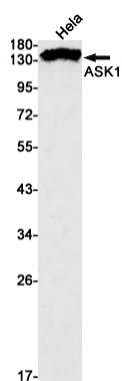
Protein Information

Name	MAP3K5
Synonyms	ASK1, MAPKKK5, MEKK5
Function	<p>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).</p>
Cellular Location	Cytoplasm. Endoplasmic reticulum. Note=Interaction with 14-3-3 proteins alters the distribution of MAP3K5/ASK1 and restricts it to the perinuclear endoplasmic reticulum region

Tissue Location

Abundantly expressed in heart and pancreas.

Images



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