

Phospho-ASK 1 (Ser83) Antibody
Catalog # ABV11982**Specification**

Phospho-ASK 1 (Ser83) Antibody - Product Information

Application	WB
Primary Accession	Q99683
Reactivity	Human
Host	Rabbit
Isotype	Rabbit IgG
Calculated MW	154537

Phospho-ASK 1 (Ser83) Antibody - Additional Information**Gene ID** 4217

Positive Control	WB: 293 cell lysate
Application & Usage	WB 1:500-1:2000; IHC 1:100-1:300; E 1:20000;

Other Names

Apoptosis signal-regulating kinase 1, Mitogen-activated protein kinase kinase kinase 5, ASK-1, MAPK/ERK kinase kinase 5, MEK kinase 5, MEKK 5

Target/Specificity

MAP3K5

Antibody Form

Liquid

Appearance

Colorless liquid

Handling

The antibody solution should be gently mixed before use

Reconstitution & Storage

-20°C

Background Descriptions**Precautions**

Phospho-ASK 1 (Ser83) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-ASK 1 (Ser83) Antibody - Protein Information**Name** MAP3K5

Synonyms ASK1, MAPKKK5, MEKK5

Function

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).

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

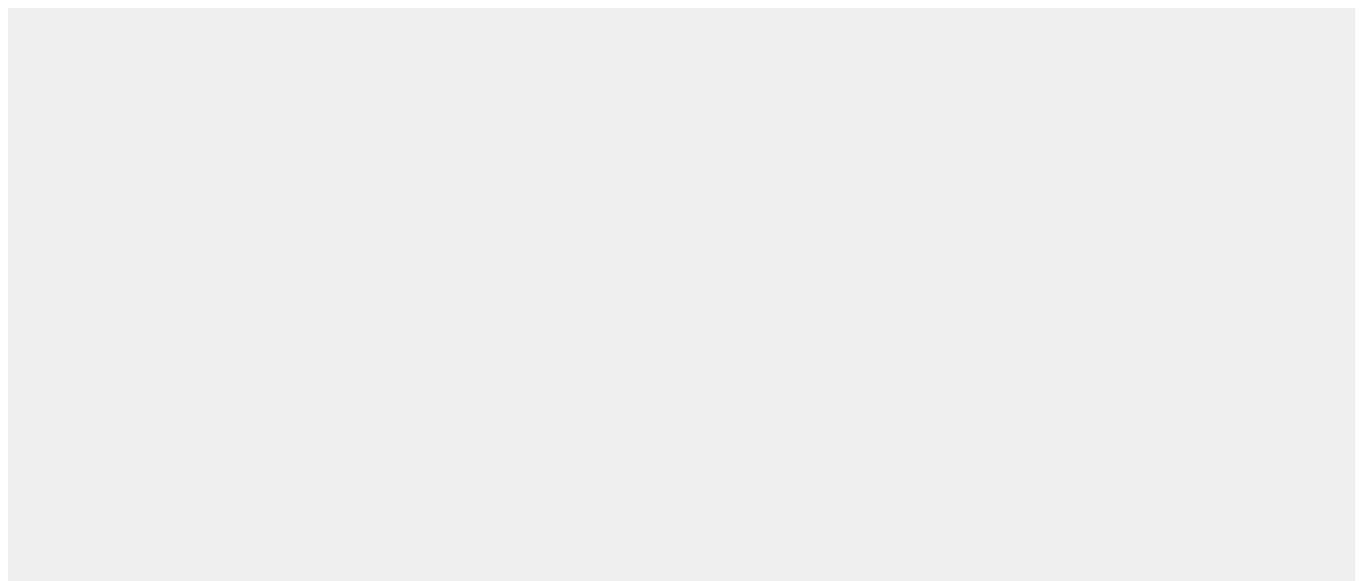
Abundantly expressed in heart and pancreas.

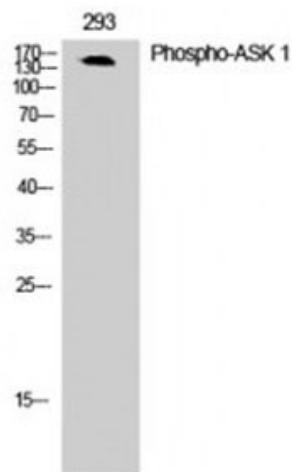
Phospho-ASK 1 (Ser83) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-ASK 1 (Ser83) Antibody - Images





WB (WB) analysis of 293 cells using Phospho-ASK 1 (S83) Polyclonal Antibody.