

# Product datasheet

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# ARG43714 anti-ASK1 antibody

Package: 100 μl Store at: -20°C

# Summary

Product Description Rabbit Polyclonal antibody recognizes ASK1

Tested Reactivity Hu

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG
Target Name ASK1

Species Human

Immunogen Synthetic peptide derived from Human ASK1.

Conjugation Un-conjugated

Alternate Names ASK-1; MEK kinase 5; ASK1; MAPK/ERK kinase kinase 5; Mitogen-activated protein kinase kinase kinase

5; MEKK5; Apoptosis signal-regulating kinase 1; MEKK 5; EC 2.7.11.25; MAPKKK5; M3K5

# **Application Instructions**

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	
Observed Size	~155 kDa	

#### **Properties**

Form Liquid

Purification Affinity purified.

Buffer 50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.

Preservative 0.01% Sodium azide

Stabilizer 40% Glycerol and 0.05% BSA

Concentration Batch dependent

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol MAP3K5

Gene Full Name mitogen-activated protein kinase kinase kinase 5

Background Component of a protein kinase signal transduction cascade. Phosphorylates and activates MAP2K4 and

MAP2K6, which in turn activate the JNK and p38 MAP kinases, respectively. Overexpression induces

apoptotic cell death.

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

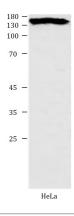
p38 MAPK and JNKs control the transcription factors activator protein-1 (AP-1). [UniProt]

Calculated Mw 154.5 kDa

PTM Methylation, Phosphoprotein, Ubl conjugation

Cellular Localization Cytoplasm, Endoplasmic reticulum

#### **Images**



### ARG43714 anti-ASK1 antibody WB image

Western Blot: extracts from HeLa cells stained with anti-ASK1 antibody ARG43714 at 1:1000 dilution.