

Datasheet for ABIN683128
anti-ASK1 antibody (pThr845)

5 Images

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Overview

Quantity:	100 µL
Target:	ASK1 (MAP3K5)
Binding Specificity:	pThr845
Reactivity:	Human, Mouse, Rat, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ASK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from mouse ASK1 around the phosphorylation site of Thr845
Isotype:	IgG
Cross-Reactivity:	Cow, Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	ASK1 (MAP3K5)
Alternative Name:	ASK1 (MAP3K5 Products)

Target Details

Background:	<p>Synonyms: ASK, ASK1, Mek5, MAPKKK5, 742452D2Rik, Mitogen-activated protein kinase kinase kinase 5, Apoptosis signal-regulating kinase 1, ASK-1, MAPK/ERK kinase kinase 5, MEK kinase 5, MEKK 5, Map3k5</p> <p>Background: 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>
Gene ID:	26408
UniProt:	O35099
Pathways:	MAPK Signaling , Positive Regulation of Endopeptidase Activity , Unfolded Protein Response

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

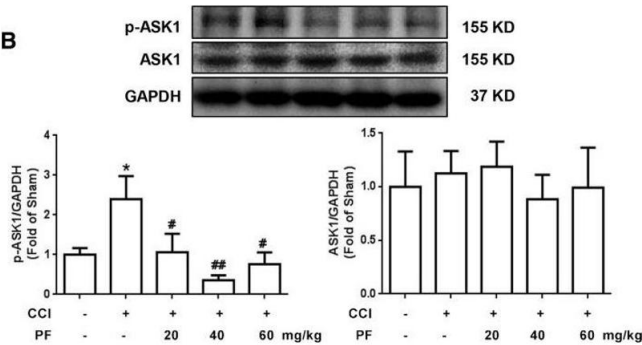
Publications

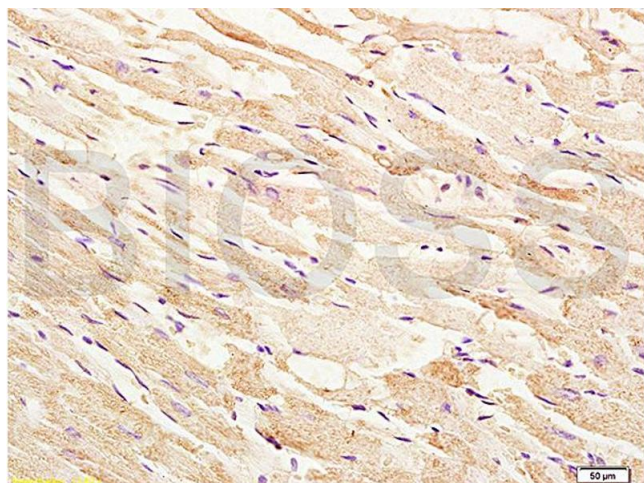
Product cited in:	<p>Zhou, Zhang, Hu, Gu, Cai, Wu, Liu, Jiang, Kong, Zhang: "Inhibition of apoptosis signal-regulating kinase by paeoniflorin attenuates neuroinflammation and ameliorates neuropathic pain." in: Journal of neuroinflammation, Vol. 16, Issue 1, pp. 83, (2019) (PubMed).</p> <p>Taniuchi, Furihata, Hanazaki, Iwasaki, Tanaka, Shimizu, Saito, Saibara: "Peroxiredoxin 1 Promotes Pancreatic Cancer Cell Invasion by Modulating p38 MAPK Activity." in: Pancreas, Vol. 44, Issue 2, pp. 331-40, (2015) (PubMed).</p>
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Images

Western Blotting

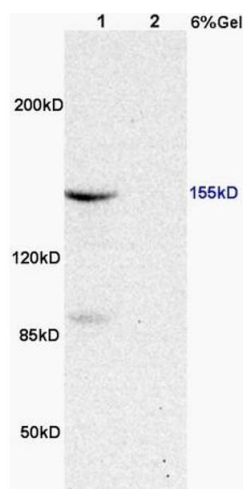
Image 1. Paeoniflorin mimicked ASK1 inhibitor and decreased the phosphorylation of ASK1 in vivo. a AutoDock results show that paeoniflorin tightly bound to ASK1, which is equivalent to the ASK1 inhibitor NQDI1. b Paeoniflorin (20, 40, and 60 mg/kg, i.p.) significantly decreased the phosphorylation of ASK1 at 2h after administration (n=4). The lumbar spines (L1-L6) were collected and analyzed 2h after the drug administration. PF, paeoniflorin. Significant differences were revealed following one-way ANOVA (*P<0.05, **P<0.01, ***P<0.001 vs. control, #P<0.05, ##P<0.01, ###P<0.001 vs. CCI group, Bonferroni post hoc tests) - figure provided by CiteAb. Source: PMID30975172





Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat heart tissue labeled with Anti-phospho-ASK1(Thr845) Polyclonal Antibody, Unconjugated (ABIN683128) at 1:200 followed by conjugation to the secondary antibody, (SP-0023), and DAB staining



SDS-PAGE

Image 3. L1 rat heart, L2 rat brain lysates probed (ABIN683128) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted and observed band size: 155kDa.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN683128.