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Datasheet for ABIN6255571 anti-ASK1 antibody (pSer966)

4 Images

1 Publication



Overview

Quantity:	100 μL
Target:	ASK1 (MAP3K5)
Binding Specificity:	pSer966
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ASK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human ASK1 around the phosphorylation site of Ser966.
Isotype:	IgG
Specificity:	Phospho-ASK1 (Ser966) Antibody detects endogenous levels of ASK1 only when phosphorylated at Serine 966.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Dog,Chicken
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:

ASK1 (MAP3K5)

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Target Details	
Alternative Name:	MAP3K5 (MAP3K5 Products)
Background:	Description: 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).
	Gene: MAP3K5
Molecular Weight:	155kDa
Gene ID:	4217
UniProt:	Q99683
Pathways:	MAPK Signaling, Positive Regulation of Endopeptidase Activity, Unfolded Protein Response

Application Details

Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Handling

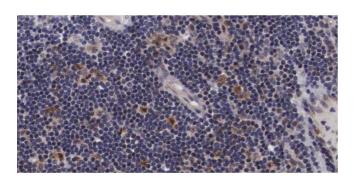
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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Handling

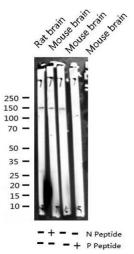
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months
Publications	
Product cited in:	Muhanhali, Zhai, Jiang, Ai, Zhu, Ling: "Long Non-coding Antisense RNA TNRC6C-AS1 Is
	Activated in Papillary Thyroid Cancer and Promotes Cancer Progression by Suppressing
	TNRC6C Expression." in: Frontiers in endocrinology, Vol. 9, pp. 360, (2018) (PubMed).

Images



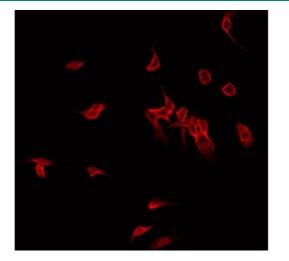
Immunohistochemistry

Image 1. ABIN6267686 at 1/100 staining human Lymph node tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blotting

Image 2. Western blot analysis of Phospho-ASK1 (Ser966) expression in various lysates



Immunofluorescence (fixed cells)

Image 3. ABIN6267686 staining MDA-MB-435 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

Please check the product details page for more images. Overall 4 images are available for ABIN6255571.