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anti-MAPKAP Kinase 3 antibody (C-Term)

3 Images



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Overview

Target:

Quantity:	100 μL
Target:	MAPKAP Kinase 3 (MAPKAPK3)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAPKAP Kinase 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF),
	Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human MAPK3, corresponding to a region within C-terminal
	amino acids.
Isotype:	IgG
Specificity:	MAPK3 Antibody detects endogenous levels of total MAPK3.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling
	Resin (Thermo Fisher Scientific).
Target Details	

MAPKAP Kinase 3 (MAPKAPK3)

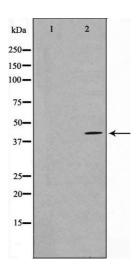
Target Details

Alternative Name:	MAPKAPK3 (MAPKAPK3 Products)
Background:	Description: Stress-activated serine/threonine-protein kinase involved in cytokines production,
	endocytosis, cell migration, chromatin remodeling and transcriptional regulation. Following
	stress, it is phosphorylated and activated by MAP kinase p38-alpha/MAPK14, leading to
	phosphorylation of substrates. Phosphorylates serine in the peptide sequence, Hyd-X-R-X2-S,
	where Hyd is a large hydrophobic residue. MAPKAPK2 and MAPKAPK3, share the same
	function and substrate specificity, but MAPKAPK3 kinase activity and level in protein expression
	are lower compared to MAPKAPK2. Phosphorylates HSP27/HSPB1, KRT18, KRT20, RCSD1,
	RPS6KA3, TAB3 and TTP/ZFP36. Mediates phosphorylation of HSP27/HSPB1 in response to
	stress, leading to dissociate HSP27/HSPB1 from large small heat-shock protein (sHsps)
	oligomers and impair their chaperone activities and ability to protect against oxidative stress
	effectively. Involved in inflammatory response by regulating tumor necrosis factor (TNF) and
	IL6 production post-transcriptionally: acts by phosphorylating AU-rich elements (AREs)-binding
	proteins, such as TTP/ZFP36, leading to regulate the stability and translation of TNF and IL6
	mRNAs. Phosphorylation of TTP/ZFP36, a major post-transcriptional regulator of TNF,
	promotes its binding to 14-3-3 proteins and reduces its ARE mRNA affinity leading to inhibition
	of dependent degradation of ARE-containing transcript. Involved in toll-like receptor signaling
	pathway (TLR) in dendritic cells: required for acute TLR-induced macropinocytosis by
	phosphorylating and activating RPS6KA3. Also acts as a modulator of Polycomb-mediated
	repression.
	Gene: MAPKAPK3
Molecular Weight:	42kDa
Gene ID:	7867
UniProt:	Q16644
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-
	Like Receptors Cascades
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
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Handling

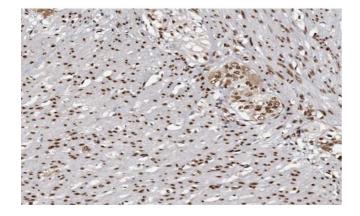
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western blot analysis on COLO205 cell lysate using MAPK3 Antibody, The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry

Image 2. ABIN6266862 at 1/100 staining human Smooth muscle 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.



Immunofluorescence (fixed cells)

Image 3. ABIN6266862 staining COLO205 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.