

Datasheet for ABIN6263120 anti-MAPKAP Kinase 2 antibody (C-Term)

2 Images



Overview

Quantity:	100 μL
Target:	MAPKAP Kinase 2 (MAPKAPK2)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAPKAP Kinase 2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human MAPKAPK2, corresponding to a region within C- terminal amino acids.
Isotype:	lgG
Specificity:	MAPKAPK2 Antibody detects endogenous levels of total MAPKAPK2.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling

Target Details

Target:

MAPKAP Kinase 2 (MAPKAPK2)

Resin (Thermo Fisher Scientific).

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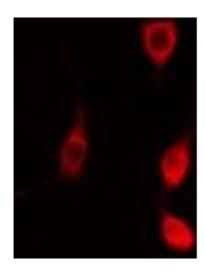
Target Details		
Alternative Name:	MAPKAPK2 (MAPKAPK2 Products)	
Background:	Description: Stress-activated serine/threonine-protein kinase involved in cytokine production,	
	endocytosis, reorganization of the cytoskeleton, cell migration, cell cycle control, chromatin	
	remodeling, DNA damage response and transcriptional regulation. Following stress, it is	
	phosphorylated and activated by MAP kinase p38-alpha/MAPK14, leading to phosphorylation o	
	substrates. Phosphorylates serine in the peptide sequence, Hyd-X-R-X2-S, where Hyd is a large	
	hydrophobic residue. Phosphorylates ALOX5, CDC25B, CDC25C, CEP131, ELAVL1, HNRNPA0,	
	HSP27/HSPB1, KRT18, KRT20, LIMK1, LSP1, PABPC1, PARN, PDE4A, RCSD1, RPS6KA3, TAB3	
	and TTP/ZFP36. Phosphorylates HSF1, leading to the interaction with HSP90 proteins and	
	inhibiting HSF1 homotrimerization, DNA-binding and transactivation activities	
	(PubMed:16278218). Mediates phosphorylation of HSP27/HSPB1 in response to stress, leading	
	to the dissociation of HSP27/HSPB1 from large small heat-shock protein (sHsps) oligomers	
	and impairment of 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 ELAVL1, HNRNPA0, PABPC1 and TTP/ZFP36, leading to the regulation of 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 transcripts.	
	Phosphorylates CEP131 in response to cellular stress induced by ultraviolet irradiation which	
	promotes binding of CEP131 to 14-3-3 proteins and inhibits formation of novel centriolar	
	satellites (PubMed:26616734). Also involved in late G2/M checkpoint following DNA damage	
	through a process of post-transcriptional mRNA stabilization: following DNA damage,	
	relocalizes from nucleus to cytoplasm and phosphorylates HNRNPA0 and PARN, leading to	
	stabilization of GADD45A mRNA. Involved in toll-like receptor signaling pathway (TLR) in	
	dendritic cells: required for acute TLR-induced macropinocytosis by phosphorylating and	
	activating RPS6KA3.	
	Gene: MAPKAPK2	
Molecular Weight:	46 kDa.	
Gene ID:	9261	
JniProt:	P49137	
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-	
	Like Receptors Cascades	

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Application Details	
Application Notes:	WB 1:1000-3000, 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 should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.

Images

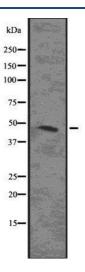
Expiry Date:



12 months

Immunofluorescence (fixed cells)

Image 1. ABIN6278263 staining NIH-3T3 cells 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 25jaC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37_jaC . An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibod



Western Blotting

Image 2. Western blot analysis of MAPKAPK2 using COLO205 whole cell lysates

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