antibodies -online.com





anti-MAPKAP Kinase 2 antibody (AA 301-400)

2 Images

2

Publications



Go to Product page

\sim			
	$ \backslash / \cap$	r\/I	$\triangle V$

Quantity:	100 μL	
Target:	MAPKAP Kinase 2 (MAPKAPK2)	
Binding Specificity:	AA 301-400	
Reactivity:	Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This MAPKAP Kinase 2 antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)),	
	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded	
	Sections) (IF (p)), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro))	

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human MAPKAP Kinase 2	
Isotype:	IgG	
Cross-Reactivity:	Rat	
Predicted Reactivity:	Human,Mouse,Cow,Pig,Rabbit	
Purification:	Purified by Protein A.	

Target Details

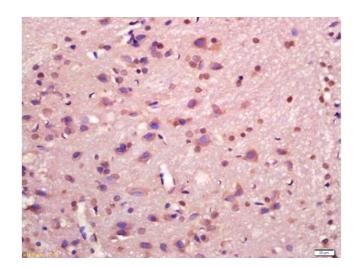
Target: MAPKAP Kinase 2 (MAPKAPK2)

Target Details		
Alternative Name:	MAPKAP Kinase 2 (MAPKAPK2 Products)	
Background:	Synonyms: MK2, MK-2, MAPKAP-K2, MAP kinase-activated protein kinase 2, MAPK-activated	
	protein kinase 2, MAPKAP kinase 2, MAPKAPK-2, MAPKAPK2	
	Background: Stress-activated serine/threonine-protein kinase involved in cytokines 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-X(2)-S, where Hyd is a	
	large hydrophobic residue. Phosphorylates ALOX5, CDC25B, CDC25C, ELAVL1, HNRNPA, HSF1	
	HSP27/HSPB1, KRT18, KRT2, LIMK1, LSP1, PABPC1, PARN, PDE4A, 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 ELAVL1,	
	HNRNPA, PABPC1 and 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. 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 HNRNPA and PARN,	
	leading to stabilize 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 ID:	9261	
UniProt:	P49137	
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-	
	Like Receptors Cascades	
Application Details		
Application Notes:	WB 1:300-5000	
	ELISA 1:500-1000	
	FCM 1:20-100	
	IHC-P 1:200-400	

Application Details

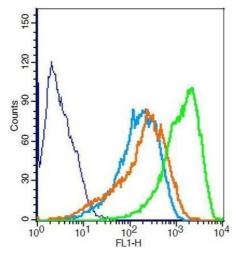
Application Details		
	IHC-F 1:100-500	
	IF(IHC-P) 1:50-200	
	IF(IHC-F) 1:50-200	
	IF(ICC) 1:50-200	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 μg/μL	
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.	
Preservative:	ProClin	
Precaution 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:	Rosenzweig, Ou, Quinn: "P38 mitogen-activated protein kinase promotes dedifferentiation of	
	primary articular chondrocytes in monolayer culture." in: Journal of cellular and molecular	
	medicine , Vol. 17, Issue 4, pp. 508-17, (2013) (PubMed).	
	Rosenzweig, Djap, Ou, Quinn: "Mechanical injury of bovine cartilage explants induces depth-	
	dependent, transient changes in MAP kinase activity associated with apoptosis." in:	
	Osteoarthritis and cartilage / OARS, Osteoarthritis Research Society, Vol. 20, Issue 12, pp.	

1591-602, (2012) (PubMed).



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-MAPKAP Kinase 2 Polyclonal Antibody, Unconjugated (ABIN681523) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Flow Cytometry

Image 2. RSC996 cells probed with Rabbit Anti-MAPKAP Kinase 2 Polyclonal Antibody .