

Datasheet for ABIN7127610 Recombinant anti-MAPKAP Kinase 2 antibody

3 Images



Overview

Quantity:	100 μL
Target:	MAPKAP Kinase 2 (MAPKAPK2)
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This MAPKAP Kinase 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	A synthesized peptide derived from human MAPKAP Kinase 2
Clone:	4H8
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

Target Details

Target:	MAPKAP Kinase 2 (MAPKAPK2)
Alternative Name:	MAPKAPK2 (MAPKAPK2 Products)
Background:	Background: Stress-activated serine/threonine-protein kinase involved in cytokine production,

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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 of
substrates. Phosphorylates serine in the peptide sequence, Hyd-X-R-X(2)-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.

Aliases: MAP kinase-activated protein kinase 2 (MAPK-activated protein kinase 2) (MAPKAP kinase 2) (MAPKAP-K2) (MAPKAPK-2) (MK-2) (MK-2) (EC 2.7.11.1), MAPKAPK2

UniProt:	P49137
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-
	Like Receptors Cascades

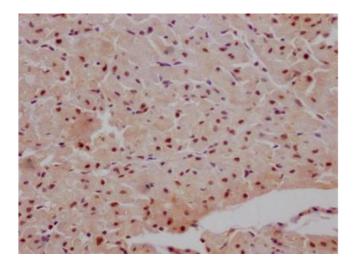
Application Details

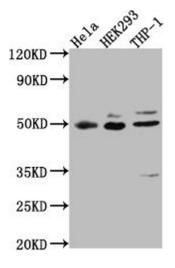
Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200,
Restrictions:	For Research Use only

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Format:	Liquid
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,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images





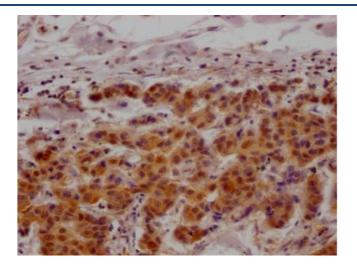
Immunohistochemistry

Image 1. IHC image of ABIN7127610 diluted at 1:100 and staining in paraffin-embedded human heart tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05 % DAB.

Western Blotting

Image 2. Western Blot Positive WB detected in: Hela whole cell lysate, HEK293 whole cell lysate, THP-1 whole cell lysate All lanes: MAPKAPK2 antibody at 1:1000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 46, 43 kDa Observed band size: 49 kDa

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Immunohistochemistry

Image 3. IHC image of ABIN7127610 diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05 % DAB.