

Phospho-MAPKAPK-2 (Thr334) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3910a**Specification**

Phospho-MAPKAPK-2 (Thr334) Antibody - Product Information

Application	WB,E
Primary Accession	P49137
Other Accession	P49136 , P49138 , P49139
Reactivity	Human
Predicted	Mouse, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	45568

Phospho-MAPKAPK-2 (Thr334) Antibody - Additional Information**Gene ID** 9261**Other Names**

MAP kinase-activated protein kinase 2, MAPK-activated protein kinase 2, MAPKAP kinase 2, MAPKAP-K2, MAPKAPK-2, MK-2, MK2, 2.7.11.1, MAPKAPK2

Target/Specificity

This Phospho-MAPKAPK-2 (Thr334) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 308-341 amino acids from human Phospho-MAPKAPK-2.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-MAPKAPK-2 (Thr334) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-MAPKAPK-2 (Thr334) Antibody - Protein Information**Name** MAPKAPK2

Function 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 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.

Cellular Location

Cytoplasm. Nucleus. Note=Phosphorylation and subsequent activation releases the autoinhibitory helix, resulting in the export from the nucleus into the cytoplasm

Tissue Location

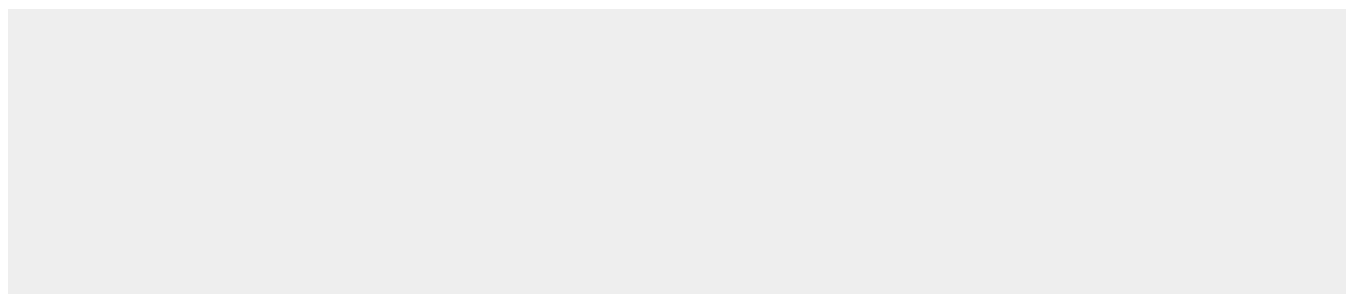
Expressed in all tissues examined.

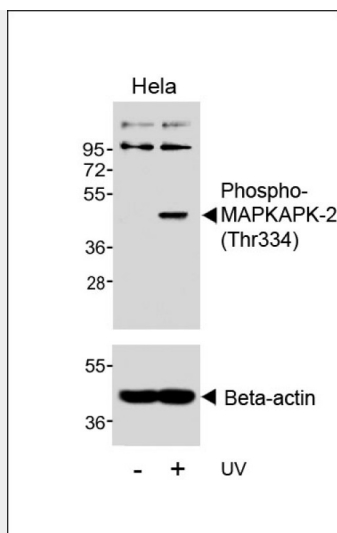
Phospho-MAPKAPK-2 (Thr334) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-MAPKAPK-2 (Thr334) Antibody - Images





Western blot analysis of lysates from HeLa cell line, untreated or treated with UV, 30min, using 456580101(Cat. #AP3910a)(upper) or Beta-actin (lower).

Phospho-MAPKAPK-2 (Thr334) Antibody - Background

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Phospho-MAPKAPK-2 (Thr334) Antibody - References

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