

MAPKAPK2 (Phospho-Thr334) Antibody

Catalog No: #12103



Package Size: #12103-1 50ul #12103-2 100ul

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Description

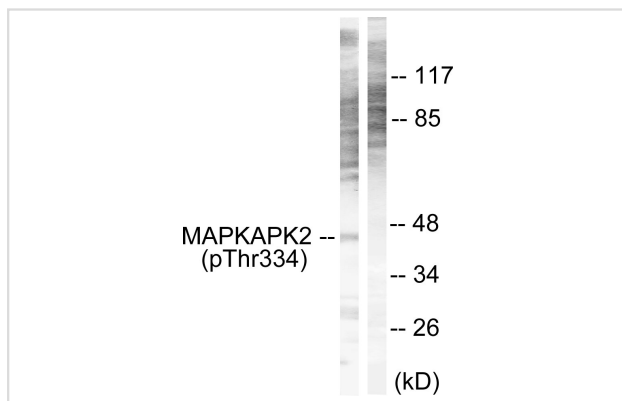
Product Name	MAPKAPK2 (Phospho-Thr334) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of MAPKAPK2 only when phosphorylated at threonine 334.
Immunogen Type	peptide
Immunogen Description	Peptide sequence around phosphorylation site of threonine 334 (P-Q-T(p)-P-L) derived from Human MAPKAPK2.
Target Name	MAPKAPK2
Modification	Phospho
Other Names	EC 2.7.11.1; MAP kinase-activated protein kinase 2; MAPK-activated protein kinase 2; MAPK2; MAPKAP kinase 2; MAPKAPK-2; MAPKAPK2; RPS6KC1; kinase MAPKAPK2
Accession No.	Swiss-Prot#:P49137;NCBI Gene#:9261
SDS-PAGE MW	49kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

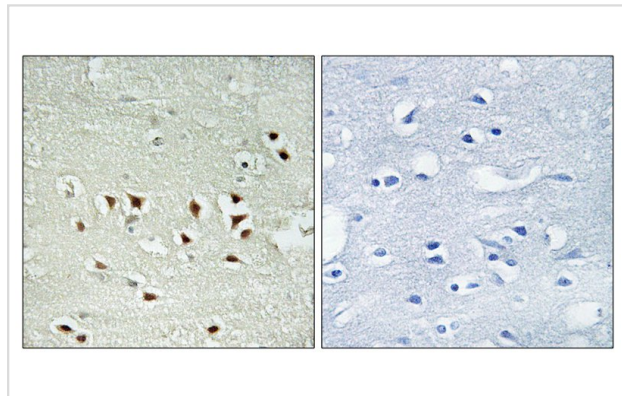
Western blotting: 1:500~1:3000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from NIH/3T3 cells, using MAPKAPK2 (Phospho-Thr334) antibody #12103. The lane on the right is treated with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MAPKAPK2 (Phospho-Thr334) antibody #12103. The picture on the right is treated with the synthesized peptide.

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 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, ELAVL1, HNRNPA0, HSF1, HSP27/HSPB1, KRT18, KRT20, 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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.