



# MAPKAPK-2 (phospho Ser272) rabbit pAb

Cat No.:ES8005

For research use only

## Overview

|                                 |                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>             | MAPKAPK-2 (phospho Ser272) rabbit pAb                                                                                                                           |
| <b>Host species</b>             | Rabbit                                                                                                                                                          |
| <b>Applications</b>             | WB;IHC;IF;ELISA                                                                                                                                                 |
| <b>Species Cross-Reactivity</b> | Human;Mouse;Rat                                                                                                                                                 |
| <b>Recommended dilutions</b>    | Western Blot: 1/500 - 1/2000.<br>Immunohistochemistry: 1/100 - 1/300. ELISA:<br>1/5000. Not yet tested in other applications.                                   |
| <b>Immunogen</b>                | The antiserum was produced against synthesized peptide derived from human MAPKAPK2 around the phosphorylation site of Ser272. AA range:238-287                  |
| <b>Specificity</b>              | Phospho-MAPKAPK-2 (S272) Polyclonal Antibody detects endogenous levels of MAPKAPK-2 protein only when phosphorylated at S272.                                   |
| <b>Formulation</b>              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                         |
| <b>Storage</b>                  | Store at -20°C. Avoid repeated freeze-thaw cycles.                                                                                                              |
| <b>Protein Name</b>             | MAP kinase-activated protein kinase 2                                                                                                                           |
| <b>Gene Name</b>                | MAPKAPK2                                                                                                                                                        |
| <b>Cellular localization</b>    | Cytoplasm . Nucleus . Phosphorylation and subsequent activation releases the autoinhibitory helix, resulting in the export from the nucleus into the cytoplasm. |
| <b>Purification</b>             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                           |
| <b>Clonality</b>                | Polyclonal                                                                                                                                                      |
| <b>Concentration</b>            | 1 mg/ml                                                                                                                                                         |
| <b>Observed band</b>            | 45-52kD                                                                                                                                                         |
| <b>Human Gene ID</b>            | 9261                                                                                                                                                            |
| <b>Human Swiss-Prot Number</b>  | P49137                                                                                                                                                          |
| <b>Alternative Names</b>        | MAPKAPK2; MAP kinase-activated protein kinase 2; MAPK-activated protein kinase 2; MAPKAP kinase 2; MAPKAP-K2; MAPKAPK-2; MK-2; MK2                              |

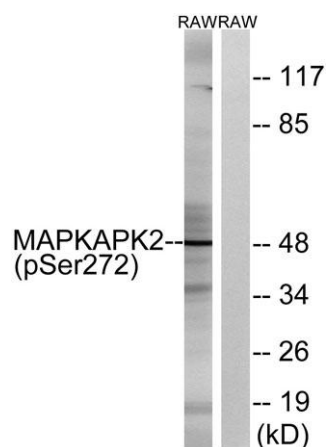
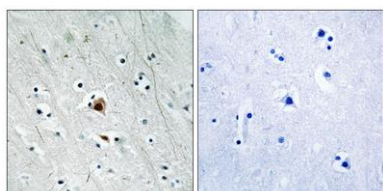




## Background

This gene encodes a member of the Ser/Thr protein kinase family. This kinase is regulated through direct phosphorylation by p38 MAP kinase. In conjunction with p38 MAP kinase, this kinase is known to be involved in many cellular processes including stress and inflammatory responses, nuclear export, gene expression regulation and cell proliferation. Heat shock protein HSP27 was shown to be one of the substrates of this kinase in vivo. Two transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

Immunohistochemistry analysis of paraffin-embedded human brain, using MAPKAPK2 (Phospho-Ser272) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from RAW264.7 cells treated with UV 15', using MAPKAPK2 (Phospho-Ser272) Antibody. The lane on the right is blocked with the phospho peptide.

