# MAPKAPK5 ELISA Kit for Human, Mouse

## PRODUCT OVERVIEW

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| **Product Name** | MAPKAPK5, ELISA Kit |
| **Full Product Name** | MAPKAPK5 Colorimetric Cell-Based ELISA Kit |
| **Product Gene Name** | MAPKAPK5 elisa kit |
| **Product Synonym Names** | MAP kinase-activated protein kinase 5; MAPK-activated protein kinase 5; MAPK5; MAPKAP kinase 5; p38-regulated/activated protein kinase; PRAK |
| **Species Reactivity** | Human, Mouse |
| **Assay Type** | Non-Phospho Cell-Based ELISA |
| **Samples** | Researchers plate their cell line of choice |
| **Sensitivity** | >=5000 cells/well |
| **Form/Format** | One 96-Well Plate |
| **Preparation and Storage** | Store at 4 degree C. |
| **Molecular Weight** | 54220 |
| **OMIM** | AF032437 Genomic DNA |
| **3D Structure** | ModBase 3D Structure for Q8IW41 |
| **Detection Method** | Colorimetric 450 nm |
| **Product Categories/Family for MAPKAPK5 elisa kit** | Cell Based ELISA Kit |
| **Related Product Information for MAPKAPK5 elisa kit** | MBS9500366 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the MAPKAPK5, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MAPKAPK5. The ELISA analytical biochemical technique of the MBS9500366 kit is based on MAPKAPK5 antibody-MAPKAPK5 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MAPKAPK5 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MAPKAPK5. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |
| **Other Notes** | Small volumes of MAPKAPK5 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAPKAPK5. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 21237765 |
| **NCBI GeneID** | 8550 |
| **NCBI Accession #** | NP_003659.2 |
| **UniProt Primary Accession #** | Q8IW41 |
| **UniProt Secondary Accession #** | O60491; Q86X46; Q9BVX9; Q9UG86; B3KVA5 |
| **UniProt Related Accession #** | Q8IW41 |

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| **GenBank Nucleotide #** | NM_003668.3 |
| **NCBI Official Full Name** | MAP kinase-activated protein kinase 5 isoform 1 |
| **NCBI Official Synonym Full Names** | mitogen-activated protein kinase-activated protein kinase 5 |
| **NCBI Official Symbol** | MAPKAPK5 |
| **NCBI Official Synonym Symbols** | MK5; MK-5; PRAK; MAPKAP-K5 |
| **UniProt Protein Name** | MAP kinase-activated protein kinase 5 |
| **UniProt Synonym Protein Names** | p38-regulated/activated protein kinase; PRAK |
| **Protein Family** | MAP kinase-activated protein kinase |
| **UniProt Gene Name** | MAPKAPK5 |
| **UniProt Synonym Gene Names** | PRAK; MAPK-activated protein kinase 5; MAPKAP kinase 5; MAPKAP-K5; MAPKAPK-5; MK-5; MK5; PRAK |
| **NCBI Protein Information** | MAP kinase-activated protein kinase 5 |
| **NCBI Summary for MAPKAPK5** | The protein encoded by this gene is a tumor suppressor and member of the serine/threonine kinase family. In response to cellular stress and proinflammatory cytokines, this kinase is activated through its phosphorylation by MAP kinases including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta. The encoded protein is found in the nucleus but translocates to the cytoplasm upon phosphorylation and activation. This kinase phosphorylates heat shock protein HSP27 at its physiologically relevant sites. Two alternately spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Nov 2012] |
| **UniProt Comments for MAPKAPK5** | MAPKAPK5: a member of the MAPKAPK family of protein kinases. Activated through phosphorylation by MAP kinases including ERK, p38-alpha, and MAPp38-beta In response to cellular stress and proinflammatory cytokines. Two alternately spliced transcript variants of this gene encoding distinct isoforms have been reported.<br><br>Protein type: CAMK group; EC 2.7.11.1; Kinase, protein; MAPKAPK family; MAPKAPK subfamily; Protein kinase, CAMK; Protein kinase, Ser/Thr (non-receptor); Tumor suppressor<br><br>Chromosomal Location of Human Ortholog: 12q24.12-q24.13<br><br>Cellular Component: cytoplasm; cytosol; nucleoplasm; nucleus<br><br>Molecular Function: ATP binding; calcium-dependent protein serine/threonine kinase activity; calmodulin binding; calmodulin-dependent protein kinase activity; MAP kinase kinase activity; mitogen-activated protein kinase binding; p53 binding; protein binding; protein serine/threonine kinase activity<br><br>Biological Process: activation of MAPK activity; cell surface receptor signaling pathway; MAPK cascade; negative regulation of TOR signaling; peptidyl-serine phosphorylation; positive regulation of telomerase activity; positive regulation of telomere capping; positive regulation of telomere maintenance via telomerase; protein autophosphorylation; Ras protein signal transduction; regulation of translation; signal transduction; stress-induced premature senescence |
| **Research Articles on MAPKAPK5** | **1.** PRAK might be a potential therapeutic target of Alzheimer's disease involved in receptor for advanced glycation end products-mediated cell signaling induced by Abeta |
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| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

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