



Rabbit anti-Human MAP2K1 Polyclonal antibody (CPBT-55410RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Product Overview | Rabbit Polyclonal antibody to Human MAP2K1. |
| Antigen Description | The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. |
| Specificity | Widely expressed, with extremely low levels in brain. |
| Immunogen | Synthetic peptide (Human) from the N-terminus conjugated to KLH |
| Isotype | IgG |
| Source/Host | Rabbit |
| Species Reactivity | Human |
| Purification | Protein A purified |
| Conjugate | Unconjugated |
| Applications | WB, ICC/IF, IHC-P, IHC-Fr |
| Sequence Similarities | Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily. Contains 1 protein kinase domain. |
| Format | Liquid |

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| Size | 100 µg |
| Buffer | Preservative: 0.09% Sodium AzideConstituents: 50% Glycerol, PBS, pH 7.2 |
| Preservative | 0.09% Sodium Azide |
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |

GENE INFORMATION

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| Gene Name | MAP2K1 mitogen-activated protein kinase kinase 1 [Homo sapiens] |
| Official Symbol | MAP2K1 |
| Synonyms | MAP2K1; mitogen-activated protein kinase kinase 1; PRKMK1; dual specificity mitogen-activated protein kinase kinase 1; MAPKK1; MEK1; Dual specificity mitogen activated protein kinase kinase 1; Dual specificity mitogen-activated protein kinase kinase 1; ERK activator kinase 1; MAP kinase kinase 1; MAP2K1; MAPK/ERK kinase 1; MAPKK 1; MEK 1; MEKK1; Mitogen activated protein kinase kinase 1; MKK 1; MKK1; MP2K1_HUMAN; PRKMK1; Protein kinase mitogen activated kinase 1 (MAP kinase kinase 1); Protein kinase mitogen activated, kinase 1; MEK 1; MAPKK 1; MAPK/ERK kinase 1; OTTHUMP00000164252; MAP kinase kinase 1; ERK activator kinase 1; protein kinase, mitogen-activated, kinase 1 (MAP kinase kinase 1); MKK1; |
| Entrez Gene ID | 5604 |
| Protein Refseq | NP_002746 |
| UniProt ID | A4QPA9 |
| Chromosome Location | 15q22.1-q22.33 |
| Pathway | ARMS-mediated activation, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosyste |
| Function | ATP binding; MAP kinase kinase activity; Ras GTPase binding; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; protein tyrosine kinase activity; receptor signaling protein tyrosine phosphatase activity; |