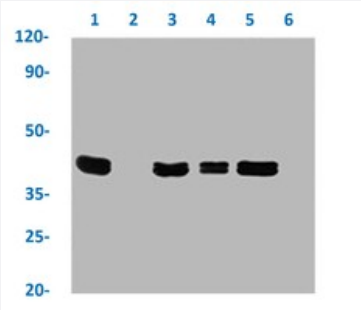
RecomAb™

# MAPK3 (phospho T202/Y204) /MAPK1 (phospho T185/Y187) recombinant monoclonal antibody, clone 4F6

Catalog # RAB04289 Size 100 uL

## Applications




### Western Blot

Western blot analysis of Lane 1:Jurkat whole cell lysate (treated with EGF 100ng/ml/20mins), Lane 2: Jurkat whole cell lysate (not treated), Lane 3: Hela whole cell lysate (treated with EGF 100ng/ml/20mins), Lane 4: Hela whole cell lysate (not treated), Lane 5: A549 whole cell lysate (treated with EGF 100ng/ml/20mins) and Lane 6: A549 whole cell lysate (not treated) with MAPK3 (phospho T202/Y204) +MAPK1 (phospho T185/Y187) recombinant monoclonal antibody, clone 4F6 (Cat # RAB04289).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human MAPK3/MAPK1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g T202/Y204 of human MAPK3 and T185/Y187 of human MAPK1. |
| **Theoretical MW (kDa)** | Calculated MW: 42 kD |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Affinity chromatography |
| **Isotype** | IgG |

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| | |
|---|---|
| **Recommend Usage** | ELISA<br>Western Blot (1:500-1:5000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide) |
| **Storage Instruction** | Store at -20 °C or -80 °C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot

  Western blot analysis of Lane 1:Jurkat whole cell lysate (treated with EGF 100ng/ml/20mins), Lane 2: Jurkat whole cell lysate (not treated), Lane 3: Hela whole cell lysate (treated with EGF 100ng/ml/20mins), Lane 4: Hela whole cell lysate (not treated), Lane 5: A549 whole cell lysate (treated with EGF 100ng/ml/20mins) and Lane 6: A549 whole cell lysate (not treated) with MAPK3 (phospho T202/Y204) +MAPK1 (phospho T185/Y187) recombinant monoclonal antibody, clone 4F6 (Cat # RAB04289).

## Gene Info — MAPK1

| | |
|---|---|
| **Entrez GeneID** | 5594 |
| **Protein Accession#** | P27361;P28482 |
| **Gene Name** | MAPK1 |
| **Gene Alias** | ERK, ERK2, ERT1, MAPK2, P42MAPK, PRKM1, PRKM2, p38, p40, p41, p41mapk |
| **Gene Description** | mitogen-activated protein kinase 1 |
| **Omim ID** | 176948 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000174492\|extracellular signal-regulated kinase 2\|extracellular signal-regulated kinase-2\|mitogen-activated protein kinase 2\|protein tyrosine kinase ERK2 |

## Gene Info — MAPK3

| | |
|---|---|
| **Entrez GeneID** | 5595 |
| **Protein Accession#** | P27361;P28482 |
| **Gene Name** | MAPK3 |
| **Gene Alias** | ERK1, HS44KDAP, HUMKER1A, MGC20180, P44ERK1, P44MAPK, PRKM3 |
| **Gene Description** | mitogen-activated protein kinase 3 |
| **Omim ID** | 601795 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000174538\|OTTHUMP00000174540\|extracellular signal-regulated kinase 1\|extracellular signal-related kinase 1 |

## Pathway

- Acute myeloid leukemia
- Acute myeloid leukemia
- Adherens junction
- Adherens junction

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- Axon guidance
- Axon guidance
- B cell receptor signaling pathway
- B cell receptor signaling pathway
- Bladder cancer
- Bladder cancer
- Chemokine signaling pathway
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Chronic myeloid leukemia
- Colorectal cancer
- Colorectal cancer
- Dorso-ventral axis formation
- Dorso-ventral axis formation
- Endometrial cancer
- Endometrial cancer
- ErbB signaling pathway
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Focal adhesion
- Gap junction

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- Gap junction
- Glioma
- Glioma
- GnRH signaling pathway
- GnRH signaling pathway
- Insulin signaling pathway
- Insulin signaling pathway
- Long-term depression
- Long-term depression
- Long-term potentiation
- Long-term potentiation
- MAPK signaling pathway
- MAPK signaling pathway
- Melanogenesis
- Melanogenesis
- Melanoma
- Melanoma
- mTOR signaling pathway
- mTOR signaling pathway
- Natural killer cell mediated cytotoxicity
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Non-small cell lung cancer
- Pancreatic cancer

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- Pancreatic cancer
- Pathways in cancer
- Pathways in cancer
- Prion diseases
- Prion diseases
- Prostate cancer
- Prostate cancer
- Regulation of actin cytoskeleton
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- Renal cell carcinoma
- T cell receptor signaling pathway
- T cell receptor signaling pathway
- TGF-beta signaling pathway
- TGF-beta signaling pathway
- Thyroid cancer
- Thyroid cancer
- Toll-like receptor signaling pathway
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- Type II diabetes mellitus
- Vascular smooth muscle contraction
- Vascular smooth muscle contraction
- VEGF signaling pathway
- VEGF signaling pathway

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## Disease

- Anorexia Nervosa
- Asthma
- Asthma
- Autistic Disorder
- Bulimia
- Cardiovascular Diseases
- Diabetes Mellitus
- Disease Models
- Disease Models
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- HIV Infections
- Kidney Failure
- Narcolepsy
- Ovarian Neoplasms
- Thyroid Neoplasms

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