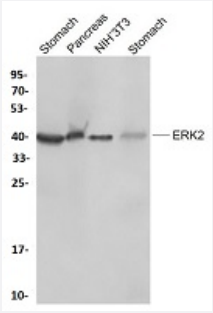
RecomAb™ Sm Size

# MAPK1 recombinant monoclonal antibody

Catalog # RAB09301 Size 50 uL

## Applications




### Western Blot

Western blot analysis with MAPK1 recombinant monoclonal antibody (Cat # RAB02632) at 1:1000 dilution.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human MAPK1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant human ERK2 protein, around C-terminal 150aa. |
| **Theoretical MW (kDa)** | 42 |
| **Reactivity** | Human, Mouse, Rat |
| **Specificity** | This antibody detects endogenous levels of ERK2 protein. |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Protein A purification |
| **Isotype** | IgG |
| **Recommend Usage** | Western Blot (1:500-1:2000)<br>The optimal working dilution should be determined by the end user. |

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| | |
|---|---|
| **Storage Buffer** | In 0.01M TBS, pH7.4 (1% BSA, 0.03% Proclin300 and 50% Glycerol) |
| **Storage Instruction** | Store at 4°C short term.<br>Aliquot and store at -20°C long term.<br>Avoid freeze-thaw cycles. |

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- Western Blot

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## Gene Info — MAPK1

| | |
|---|---|
| **Entrez GeneID** | 5594 |
| **Protein Accession#** | 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 |
| **Gene Summary** | The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also kno wn as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple bioche mical signals, and are involved in a wide variety of cellular processes such as proliferation, differe ntiation, transcription regulation and development. The activation of this kinase requires its phosp horylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the sti mulated 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 kin ase-2\|mitogen-activated protein kinase 2\|protein tyrosine kinase ERK2 |

## Pathway

- Acute myeloid leukemia
- Adherens junction

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- Axon guidance
- B cell receptor signaling pathway
- Bladder cancer
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer
- Dorso-ventral axis formation
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Gap junction
- Glioma
- GnRH signaling pathway
- Insulin signaling pathway
- Long-term depression
- Long-term potentiation
- MAPK signaling pathway
- Melanogenesis
- Melanoma
- mTOR signaling pathway
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pancreatic cancer

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

## Disease

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

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- Thyroid Neoplasms

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