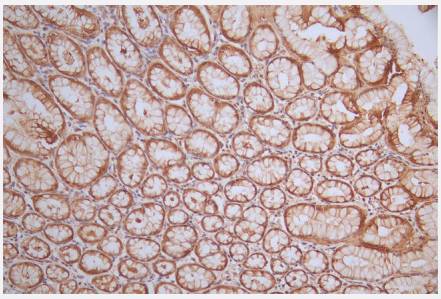
RecomAb™

MAPK1/MAPK3 recombinant monoclonal antibody, clone 29B10

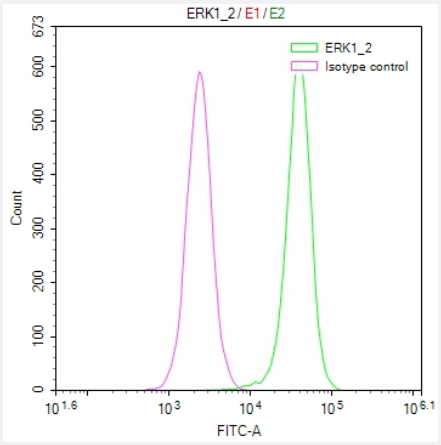
Catalog # RAB07766 Size 100 uL

Applications



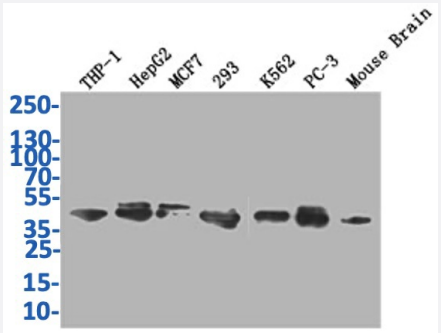
Immunohistochemistry

Immunohistochemistry image of MAPK1|MAPK3 recombinant monoclonal antibody, clone 29B10 diluted at 1:50 and staining in paraffin-embedded human stomach tissue performed on a Leica BondTM system.



Flow Cytometry

Overlay Peak curve showing Hela cells stained with MAPK1|MAPK3 recombinant monoclonal antibody, clone 29B10 (red line) at 1:50.



Western Blot

Western Blot analysis of Lane 1: THP-1 whole cell lysate; Lane 2: HepG2 whole cell lysate; Lane 3: MCF-7 whole cell lysate; Lane 4: 293 whole cell lysate; Lane 5: K562 whole cell lysate; Lane 6: PC-3 whole cell lysate; Lane 7: Mouse brain tissue lysate.

Specification

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Product Description	Rabbit recombinant monoclonal antibody raised against human and mouse MAPK1/MAPK3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human MAPK1/MAPK3.
Theoretical MW (kDa)	Calculated MW: 42
Reactivity	Human, Mouse
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry(1:50-1:200) Immunohistochemistry(1:50-1:200) Western Blot(1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°C. 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

- Immunohistochemistry

  Immunohistochemistry image of MAPK1|MAPK3 recombinant monoclonal antibody, clone 29B10 diluted at 1:50 and staining in paraffin-embedded human stomach tissue performed on a Leica BondTM system.

- Flow Cytometry

  Overlay Peak curve showing Hela cells stained with MAPK1|MAPK3 recombinant monoclonal antibody, clone 29B10 (red line) at 1:50.

- Enzyme-linked Immunoabsorbent Assay

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- Western Blot

Western Blot analysis of Lane 1: THP-1 whole cell lysate; Lane 2: HepG2 whole cell lysate; Lane 3: MCF-7 whole cell lysate; Lane 4: 293 whole cell lysate; Lane 5: K562 whole cell lysate; Lane 6: PC-3 whole cell lysate; Lane 7: Mouse brain tissue lysate.

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
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

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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 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
- 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

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- 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
- 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

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- 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
- 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

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- 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

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

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- Kidney Failure
- Narcolepsy
- Ovarian Neoplasms
- Thyroid Neoplasms

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