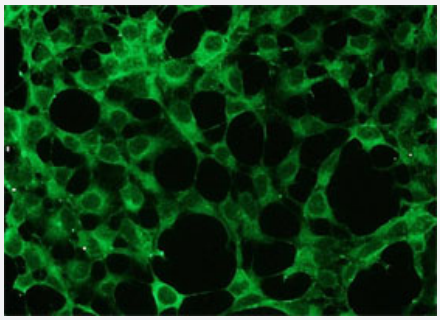
MAPK1 monoclonal antibody, clone B20-U

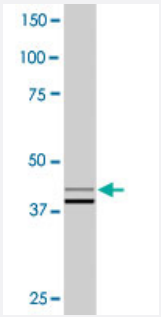
Catalog # MAB1636 Size 50 uL

Applications



Immunofluorescence

Immunofluorescence staining of HEK293 cells with MAPK1 monoclonal antibody, clone B20-U (Cat # MAB1636) at 1:200 dilution.



Western Blot (Tissue lysate)

MAPK1 monoclonal antibody, clone B20-U (Cat # MAB1636). Western blot of MAPK1 in rat brain crude lysate (100µg of protein loaded).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of MAPK1.
Immunogen	A synthetic peptide corresponding to C-terminus of human MAPK1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Isotype	IgG
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

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Recommend Usage	Western Blot (1:5000) ELISA (1:20000-1:100000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM Tris-HCl, pH 8.0 (10 mg/mL BSA, 0.05% sodium azide)
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)
- Immunofluorescence

  Immunofluorescence staining of HEK293 cells with MAPK1 monoclonal antibody, clone B20-U (Cat # MAB1636) at 1:200 dilution.
- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation
- Western Blot (Tissue lysate)

  MAPK1 monoclonal antibody, clone B20-U (Cat # MAB1636). Western blot of MAPK1 in rat brain crude lysate (100µg of protein loaded).

Gene Info — MAPK1

Entrez GeneID	5594
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

Pathway

- Acute myeloid leukemia
- Adherens junction
- 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

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- 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
- 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

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

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