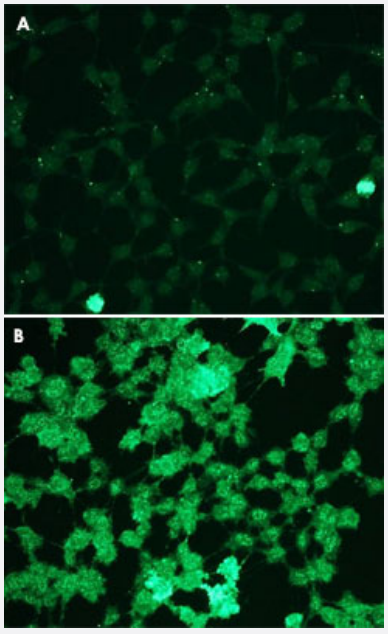
MAPK1/MAPK3 (phospho T202/204) monoclonal antibody, clone G15-B

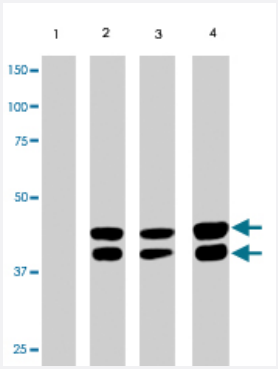
Catalog # MAB1637 Size 50 uL

Applications



Immunofluorescence

Immunofluorescence staining of HEK293 cells (A, untreated) and hydrogen peroxide treated cells (B) with MAPK1/MAPK3 (phospho T202/204) monoclonal antibody, clone G15-B (Cat # MAB1637) at 1:100 dilution.



Western Blot

MAPK1/MAPK3 (phospho T202/204) monoclonal antibody, clone G15-B (Cat # MAB1637). Western blot of MAPK1/MAPK3 activation in serum free DMEM, and EGF-100 ng/mL , 5min with 10% FBS in DMEM (4). Wells were equally loaded with 50 ug of whole cell lysate proteins/well. Western blot was performed and kindly provided by Dr. Martina Takacova from Intitute of Virology, Slovak Academy of Sciences, Bratislava, Slovakia.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic phosphopeptide of MAPK1/MAPK3.

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Immunogen	Synthetic phosphopeptide corresponding to residues surrounding T202/T204 of human MAPK1/MAPK3.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Isotype	IgG
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:20000-1:100000) Immunofluorescence Immunoprecipitation Western Blot (1:5000) 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 -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescence staining of HEK293 cells (A, untreated) and hydrogen peroxide treated cells (B) with MAPK1/MAPK3 (phospho T202/204) monoclonal antibody, clone G15-B (Cat # MAB1637) at 1:100 dilution.

- Enzyme-linked Immunoabsorbent Assay

- Immunoprecipitation

- Western Blot

  MAPK1/MAPK3 (phospho T202/204) monoclonal antibody, clone G15-B (Cat # MAB1637). Western blot of MAPK1/MAPK3 activation in serum free DMEM, and EGF-100 ng/mL , 5min with 10% FBS in DMEM (4). Wells were equally loaded with 50 ug of whole cell lysate proteins/well. Western blot was performed and kindly provided by Dr. Martina Takacova from Intitute of Virology, Slovak Academy of Sciences, Bratislava, Slovakia.

Gene Info — MAPK1

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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
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
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

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Publication Reference

- REST and Neural Gene Network Dysregulation in iPSC Models of Alzheimer's Disease.

  Meyer K, Feldman HM, Lu T, Drake D, Lim ET, Ling KH, Bishop NA, Pan Y, Seo J, Lin YT, Su SC, Church GM, Tsai LH, Yankner BA.

  Cell Reports 2019 Jan; 26(5):1112.

  Application: WB, Human, Human dermal fibroblast cells

- Early decline in serum phospho-CSE1L levels in vemurafenib/sunitinib-treated melanoma and sorafenib/lapatinib-treated colorectal tumor xenografts.

  Lee WR, Shen SC, Shih YH, Chou CL, Tseng JT, Chin SY, Liu KH, Chen YC, Jiang MC.

  Journal of Translational Medicine 2015 Jun; 13:191.

  Application: WB-Ce, Human, B16-dEV, B16-CSE1L, B16-Ras cells

- CSE1L Links cAMP/PKA and Ras/ERK pathways and regulates the expressions and phosphorylations of ERK1/2, CREB, and MITF in melanoma cells.

  Lee WR, Shen SC, Wu PR, Chou CL, Shih YH, Yeh CM, Yeh KT, Jiang MC.

  Molecular Carcinogenesis 2016 Nov; 55(11):1542.

  Application: WB, Mouse, B16F10 mouse melanoma cells

- CSE1L, a novel microvesicle membrane protein, mediates Ras-triggered microvesicle generation and metastasis of tumor cells.

  Ching-Fong Liao, Shu-Hui Lin, Hung-Chang Chen, Cheng-Jeng Tai, Chun-Chao Chang, Li-Tzu Li, Chung-Min Yeh, Kun-Tu Yeh, Ying-Chun Chen, Tsu-Han Hsu, Shing-Chuan Shen, Woan-Ruoh Lee, Jeng-Fong Chiou, Shue-Fen Luo, Ming-Chung Jiang

  Mol Med 2012 Dec; 18(1):1269-80.

- High nuclear expression of phosphorylated extracellular signal-regulated kinase in tumor cells in colorectal glands is associated with poor outcome in colorectal cancer.

  Tai CJ, Lee CH, Chen HC, Wang HK, Jiang MC, Su TC, Shen KH, Lin SH, Yeh CM, Chen CJ, Yeh KT, Chang CC.

  Annals of Diagnostic Pathology 2013 Apr; 17(2):165.

  Application: IHC-P, Human, Colorectal cancer

- Clinical-pathological correlation of K-Ras mutation and ERK phosphorylation in colorectal cancer.

  Tai CJ, Chang CC, Jiang MC, Yeh CM, Su TC, Wu PR, Chen CJ, Yeh KT, Lin SH, Chen HC.

  Polish Journal of Pathology 2012 Jun; 63(2):93.

  Application: IHC-P, Human, Human colon cancer

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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
- Endometrial cancer
- Endometrial cancer
- ErbB signaling pathway
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc epsilon RI signaling pathway

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- 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
- Melanoma
- Melanoma
- mTOR signaling pathway
- mTOR signaling pathway
- Natural killer cell mediated cytotoxicity
- Natural killer cell mediated cytotoxicity

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- 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
- Thyroid cancer
- Thyroid cancer
- Toll-like receptor signaling pathway
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- Type II diabetes mellitus

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- 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
- Kidney Failure
- Narcolepsy
- Ovarian Neoplasms
- Thyroid Neoplasms

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