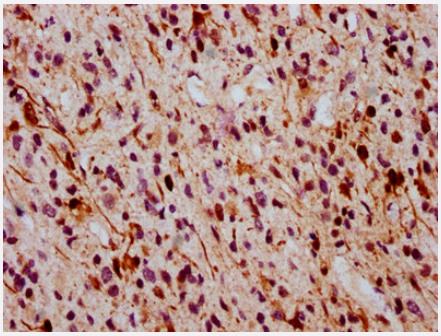
RecomAb™ Sm Size

MAPK3 (phospho T202) /MAPK1 (phospho T185) recombinant monoclonal antibody, clone 2D5

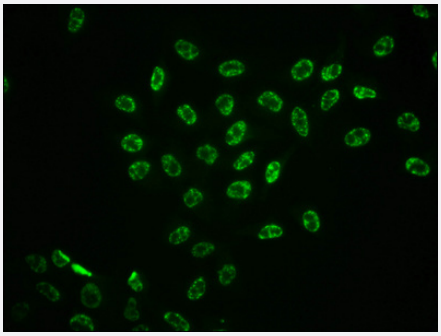
Catalog # RAB08159 Size 50 uL

Applications



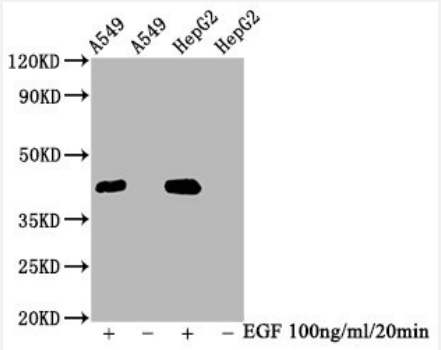
Immunohistochemistry

Immunohistochemical staining of human glioma cancer with MAPK3 (phospho T202) +MAPK1 (phospho T185) recombinant monoclonal antibody (diluated at 1:100)



Immunofluorescence

Immunofluorescent staining of Hela cells with MAPK3 (phospho T202) +MAPK1 (phospho T185) recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).



Western Blot

Western blot analysis of
Lane 1:A549 whole cell lysate (treated with EGF 100ng/ml/20mins),
Lane 2: A549 whole cell lysate (not treated),
Lane 3: HepG2 whole cell lysate (treated with EGF 100ng/ml/20mins) and
Lane 4: HepG2 whole cell lysate (not treated) with MAPK3 (phospho T202) +MAPK1 (phospho T185) recombinant monoclonal antibody.

Specification

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Product Description	Rabbit recombinant monoclonal antibody raised against human MAPK3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g T202 of human MAPK3 and T185 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
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) 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. 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

  Immunohistochemical staining of human glioma cancer with MAPK3 (phospho T202) +MAPK1 (phospho T185) recombinant monoclonal antibody (diluated at 1:100)

- Immunofluorescence

  Immunofluorescent staining of Hela cells with MAPK3 (phospho T202) +MAPK1 (phospho T185) recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

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- Western Blot

  Western blot analysis of
  Lane 1:A549 whole cell lysate (treated with EGF 100ng/ml/20mins),
  Lane 2: A549 whole cell lysate (not treated),
  Lane 3: HepG2 whole cell lysate (treated with EGF 100ng/ml/20mins) and
  Lane 4: HepG2 whole cell lysate (not treated) with MAPK3 (phospho T202) +MAPK1 (phospho T185) recombinant monoclonal antibody.

Gene Info — MAPK3

Entrez GeneID	5595
Protein Accession#	P27361
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
- Adherens junction
- Axon guidance
- B cell receptor signaling pathway
- Bladder cancer

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- 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
- Pathways in cancer
- Prion diseases
- Prostate cancer

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- 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

- Asthma
- Autistic Disorder
- Disease Models
- Genetic Predisposition to Disease

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