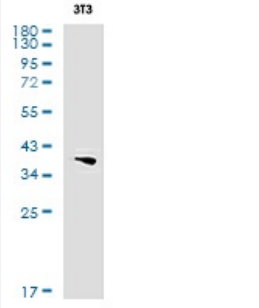
RecomAb™

MAP2K3/MAP2K6 recombinant monoclonal antibody, clone R04-2I0

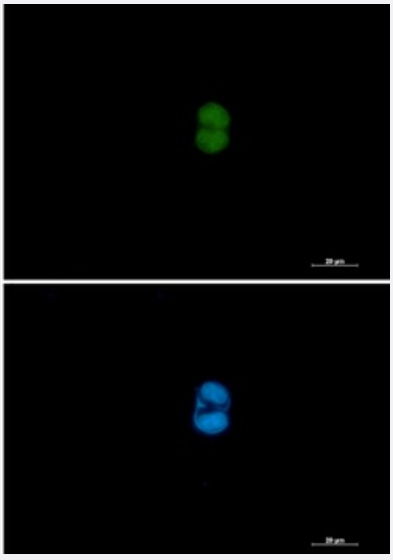
Catalog # RAB01327 Size 100 uL

Applications



Western Blot

Western blot analysis of MEK3/MEK6 in 3T3 lysates using MEK3/MEK6 antibody.Observed band size:39, 37kDa.



Immunocytochemistry

Immunocytochemistry analysis of MEK3/MEK6 (green) in HCT116 using MEK3/MEK6 antibody,and DAPI(blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human MAP2K3/MAP2K6.
Antibody Species	Rabbit

Immunogen	Original antibody is raised against recombinant protein corresponding to human MAP2K3|MAP2K6.
Theoretical MW (kDa)	Calculated MW: 39,37
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunocytochemistry Immunofluorescence Immunoprecipitation Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4, (0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C. For longer storage, aliquot and store at -20°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

- Western Blot

  Western blot analysis of MEK3/MEK6 in 3T3 lysates using MEK3/MEK6 antibody.Observed band size:39, 37kDa.

- Immunocytochemistry

  Immunocytochemistry analysis of MEK3/MEK6 (green) in HCT116 using MEK3/MEK6 antibody,and DAPI(blue).

- Immunofluorescence

- Immunoprecipitation

Gene Info — MAP2K3

Entrez GeneID	5606
Protein Accession#	P46734|P52564

Gene Name	MAP2K3
Gene Alias	MAPKK3, MEK3, MKK3, PRKMK3
Gene Description	mitogen-activated protein kinase kinase 3
Omim ID	602315
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersina pseudotuberculosis. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for this gene. [provided by RefSeq
Other Designations	MAP kinase kinase 3|MAPK/ERK kinase 3|OTTHUMP00000166044|dual specificity mitogen activated protein kinase kinase 3

Gene Info — MAP2K6

Entrez GeneID	5608
Protein Accession#	P46734|P52564
Gene Name	MAP2K6
Gene Alias	MAPKK6, MEK6, MKK6, PRKMK6, SAPKK3
Gene Description	mitogen-activated protein kinase kinase 6
Omim ID	601254
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the dual specificity protein kinase family, which functions as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein phosphorylates and activates p38 MAP kinase in response to inflammatory cytokines or environmental stress. As an essential component of p38 MAP kinase mediated signal transduction pathway, this gene is involved in many cellular processes such as stress induced cell cycle arrest, transcription activation and apoptosis. [provided by RefSeq
Other Designations	protein kinase, mitogen-activated, kinase 6 (MAP kinase kinase 6)

Pathway

- Amyotrophic lateral sclerosis (ALS)
- Amyotrophic lateral sclerosis (ALS)
- Fc epsilon RI signaling pathway
- Fc epsilon RI signaling pathway
- GnRH signaling pathway
- GnRH signaling pathway
- MAPK signaling pathway
- MAPK signaling pathway
- Toll-like receptor signaling pathway
- Toll-like receptor signaling pathway

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Huntington disease