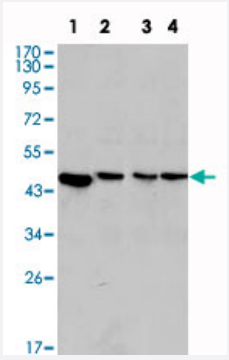
MAP2K2 monoclonal antibody, clone 7F5

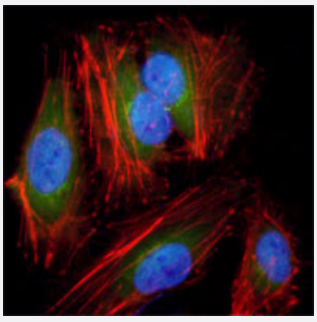
Catalog # MAB10792 Size 100 uL

Applications



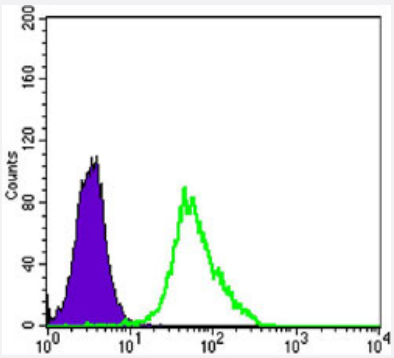
Western Blot (Cell lysate)

Western blot analysis using MAP2K2 monoclonal antibody, clone 7F5 (Cat # MAB10792) against PC-12 (1), Jurkat (2), HeLa (3) and NIH/3T3 (4) cell lysate.



Immunofluorescence

Immunofluorescence analysis of HeLa cells using MAP2K2 monoclonal antibody, clone 7F5 (Cat # MAB10792) (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye. MAP2K2 monoclonal antibody, clone 7F5 (Cat # MAB10792) (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Flow Cytometry

Flow cytometric analysis of HeLa cells using MAP2K2 monoclonal antibody, clone 7F5 (Cat # MAB10792) (green) and negative control (purple).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant MAP2K2.

Immunogen	Recombinant protein corresponding to human MAP2K2.
Host	Mouse
Reactivity	Human, Mouse, Rat
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunofluorescence (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage 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 (Cell lysate)

  Western blot analysis using MAP2K2 monoclonal antibody, clone 7F5 (Cat # MAB10792) against PC-12 (1), Jurkat (2), HeLa (3) and NIH/3T3 (4) cell lysate.

- Immunofluorescence

  Immunofluorescence analysis of HeLa cells using MAP2K2 monoclonal antibody, clone 7F5 (Cat # MAB10792) (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye. MAP2K2 monoclonal antibody, clone 7F5 (Cat # MAB10792) (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

  Flow cytometric analysis of HeLa cells using MAP2K2 monoclonal antibody, clone 7F5 (Cat # MAB10792) (green) and negative control (purple).

Gene Info — MAP2K2

Entrez GeneID	5605
Gene Name	MAP2K2
Gene Alias	FLJ26075, MAPKK2, MEK2, MKK2, PRKMK2
Gene Description	mitogen-activated protein kinase kinase 2
Omim ID	115150 601263
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 known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene. [provided by RefSeq
Other Designations	ERK activator kinase 2|MAP kinase kinase 2|MAPK/ERK kinase 2|dual specificity mitogen-activated protein kinase kinase 2|mitogen-activated protein kinase kinase 2, p45

Pathway

- Acute myeloid leukemia
- B cell receptor signaling pathway
- Bladder cancer
- Chronic myeloid leukemia
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Gap junction
- Glioma
- GnRH signaling pathway
- Insulin signaling pathway

- Long-term depression
- Long-term potentiation
- MAPK signaling pathway
- Melanogenesis
- Melanoma
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pathways in cancer
- Prion diseases
- Prostate cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- T cell receptor signaling pathway
- Thyroid cancer
- Toll-like receptor signaling pathway
- Vascular smooth muscle contraction
- VEGF signaling pathway

Disease

- Abnormalities
- Ectodermal Dysplasia
- Genetic Predisposition to Disease
- Glioma
- Heart Defects

- LEOPARD Syndrome
- Mental Retardation
- Noonan Syndrome
- Skin Abnormalities
- Syndrome