

## MAPK3 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant MAPK3.

Catalog # AT2790a

### Specification

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#### MAPK3 Antibody (monoclonal) (M02) - Product Information

Application	IF, WB, E
Primary Accession	<a href="#">P27361</a>
Other Accession	<a href="#">BC013992</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	43136

#### MAPK3 Antibody (monoclonal) (M02) - Additional Information

Gene ID 5595

##### Other Names

Mitogen-activated protein kinase 3, MAP kinase 3, MAPK 3, ERT2, Extracellular signal-regulated kinase 1, ERK-1, Insulin-stimulated MAP2 kinase, MAP kinase isoform p44, p44-MAPK, Microtubule-associated protein 2 kinase, p44-ERK1, MAPK3, ERK1, PRKM3

##### Target/Specificity

MAPK3 (AAH13992, 279 a.a. ~ 379 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

##### Dilution

WB~~1:500~1000

##### Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

##### Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

##### Precautions

MAPK3 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

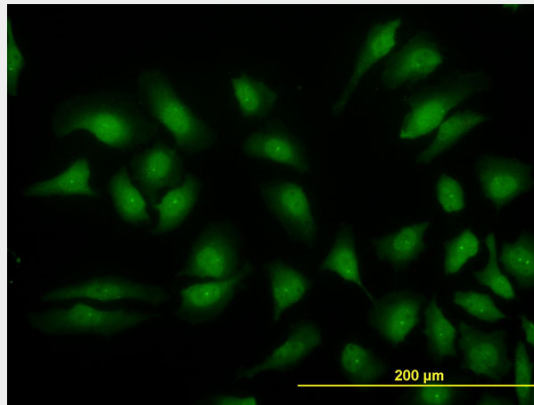
#### MAPK3 Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

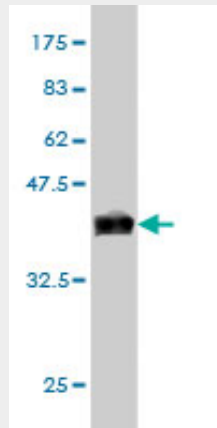
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

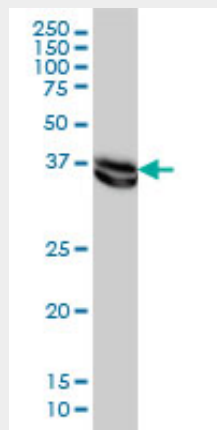
### MAPK3 Antibody (monoclonal) (M02) - Images



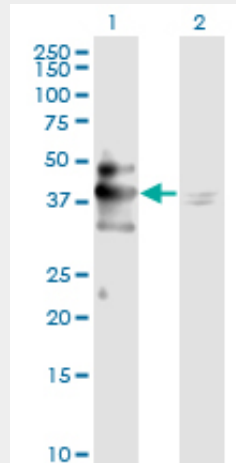
Immunofluorescence of monoclonal antibody to MAPK3 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .

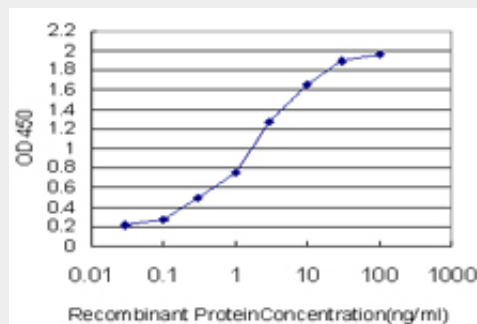


MAPK3 monoclonal antibody (M02), clone 1B1 Western Blot analysis of MAPK3 expression in HeLa ( (Cat # AT2790a )



Western Blot analysis of MAPK3 expression in transfected 293T cell line by MAPK3 monoclonal antibody (M02), clone 1B1.

Lane 1: MAPK3 transfected lysate(43.1 KDa).  
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged MAPK3 is approximately 0.03ng/ml as a capture antibody.

### MAPK3 Antibody (monoclonal) (M02) - Background

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.

### MAPK3 Antibody (monoclonal) (M02) - References

Activation of the EGFR/ERK pathway in high-grade mucoepidermoid carcinomas of the salivary glands. Lujan B, et al. *Br J Cancer*, 2010 Aug 10. PMID 20664595. S1P1 and VEGFR-2 form a signaling complex with extracellularly regulated kinase 1/2 and protein kinase C-alpha regulating ML-1 thyroid carcinoma cell migration. Bergelin N, et al. *Endocrinology*, 2010 Jul. PMID 20501673. Sorafenib downregulates ERK/Akt and STAT3 survival pathways and induces apoptosis in a human neuroblastoma cell line. Chai H, et al. *Int J Clin Exp Pathol*, 2010 Apr 23. PMID 20490331. Thymic stromal lymphopoietin receptor-mediated IL-6 and CC/CXC chemokines

expression in human airway smooth muscle cells: role of MAPKs (ERK1/2, p38, and JNK) and STAT3 pathways. Shan L, et al. J Immunol, 2010 Jun 15. PMID 20483734. Protein kinase C isoforms zeta and iota mediate collagenase expression and cartilage destruction via STAT3- and ERK-dependent c-fos induction. Litherland GJ, et al. J Biol Chem, 2010 Jul 16. PMID 20463008.