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MAPKAPK3 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant MAPKAPK3.
Catalog # AT2796a

Specification

MAPKAPK3 Antibody (monoclonal) (M02) - Product Information

Application	**WB, IHC, E**
Primary Accession	Q16644
Other Accession	BC001662
Reactivity	**Human, Mouse**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**42987**

MAPKAPK3 Antibody (monoclonal) (M02) - Additional Information

Gene ID 7867

Other Names
MAP kinase-activated protein kinase 3, MAPK-activated protein kinase 3, MAPKAP kinase 3, MAPKAP-K3, MAPKAPK-3, MK-3, Chromosome 3p kinase, 3pK, MAPKAPK3

Target/Specificity
MAPKAPK3 (AAH01662, 272 a.a. ~ 382 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
MAPKAPK3 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

MAPKAPK3 Antibody (monoclonal) (M02) - Protocols

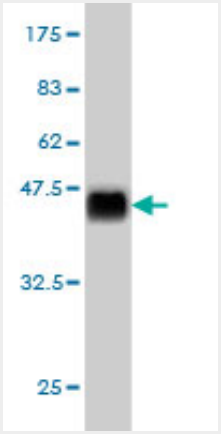
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

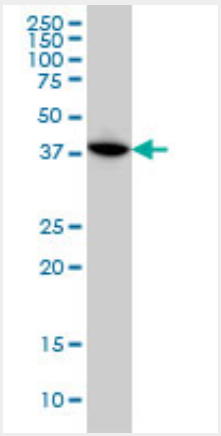
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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

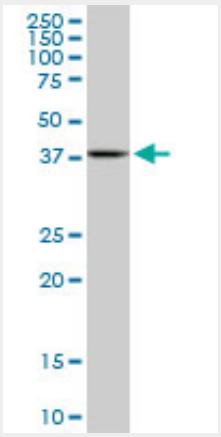
MAPKAPK3 Antibody (monoclonal) (M02) - Images



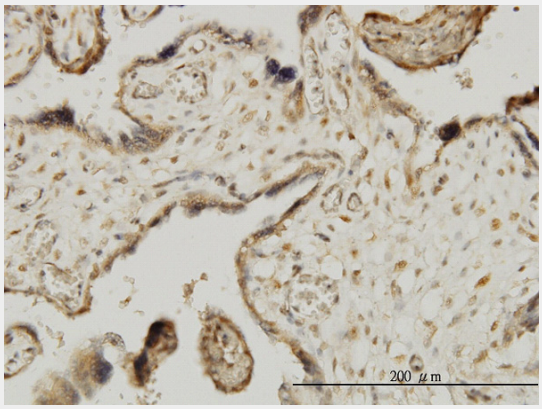
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



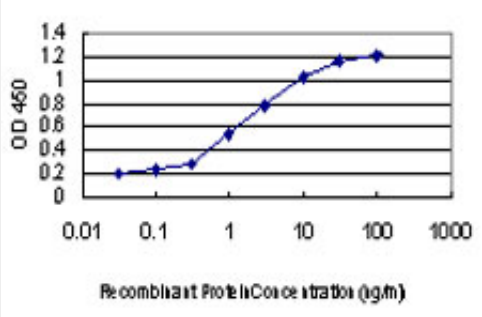
MAPKAPK3 monoclonal antibody (M02), clone 2B5 Western Blot analysis of MAPKAPK3 expression in HeLa ((Cat # AT2796a)



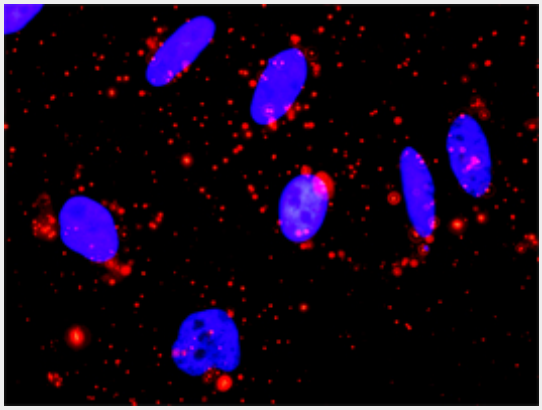
MAPKAPK3 monoclonal antibody (M02), clone 2B5. Western Blot analysis of MAPKAPK3 expression in NIH/3T3 ((Cat # AT2796a)



Immunoperoxidase of monoclonal antibody to MAPKAPK3 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged MAPKAPK3 is approximately 0.03ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between MAPK13 and MAPKAPK3 HeLa cells were stained with anti-MAPK13 rabbit purified polyclonal 1:1200 and anti-MAPKAPK3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

MAPKAPK3 Antibody (monoclonal) (M02) - Background

This gene encodes a member of the Ser/Thr protein kinase family. This kinase functions as a mitogen-activated protein kinase (MAP kinase)- activated protein kinase. MAP kinases are also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This kinase was shown to be activated by growth inducers and stress stimulation of cells. In vitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal

kinase were all able to phosphorylate and activate this kinase, which suggested the role of this kinase as an integrative element of signaling in both mitogen and stress responses. This kinase was reported to interact with, phosphorylate and repress the activity of E47, which is a basic helix-loop-helix transcription factor known to be involved in the regulation of tissue-specific gene expression and cell differentiation.

MAPKAPK3 Antibody (monoclonal) (M02) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.High-resolution crystal structure of human Mapkap kinase 3 in complex with a high affinity ligand. Cheng R, et al. Protein Sci, 2010 Jan. PMID 19937655.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.Identification of neuroglycan C and interacting partners as potential susceptibility genes for schizophrenia in a Southern Chinese population. So HC, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jan 5. PMID 19367581.A polymorphism in MAPKAPK3 affects response to interferon therapy for chronic hepatitis C. Tsukada H, et al. Gastroenterology, 2009 May. PMID 19208361.