

Product Name: MAPK3 Mouse Monoclonal Antibody
Catalog #: AMM81034



Summary

Production Name	MAPK3 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,FC,ELISA
Reactivity	Human,Mouse,Rat,Monkey

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Immunogen

Gene Name	MAPK3
Alternative Names	ERK1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; MGC20180
Gene ID	5595.0
SwissProt ID	P27361.Purified recombinant fragment of human MAPK3 expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:200-1:1000,ICC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	44kDa

Background

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-

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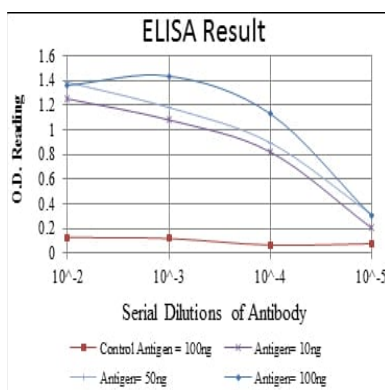


regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described.

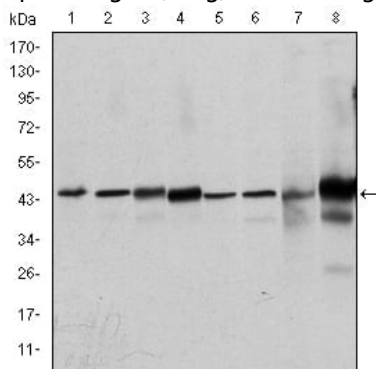
Research Area

Apoptosis, TGF-beta signaling pathway, PI3K-Akt signaling pathway, mTOR signaling pathway, MAPK signaling pathway, Jak-STAT signaling pathway

Image Data

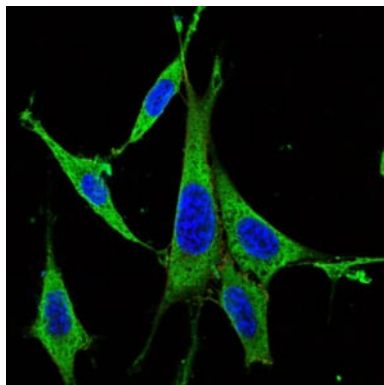


Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);

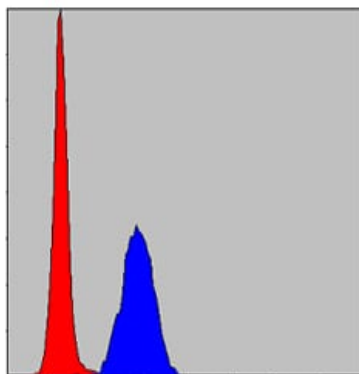


Western blot analysis using MAPK3 mouse mAb against Hela (1), Jurkat (2), RAW264.7 (3), HEK293 (4), K562 (5), NIH/3T3 (6), Cos7 (7) and PC-12 (8) cell lysate.

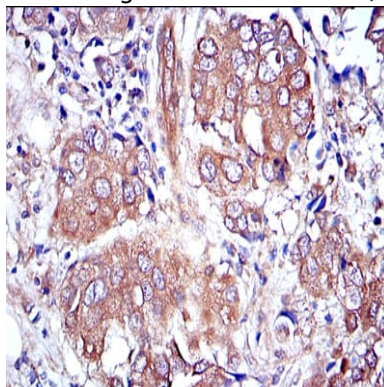
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Immunofluorescence analysis of NIH/3T3 cells using MAPK3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

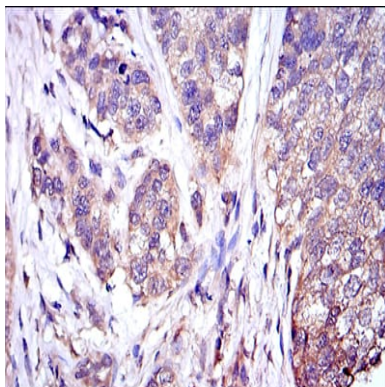


Flow cytometric analysis of Hela cells using MAPK3 mouse mAb (blue) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissues using MAPK3 mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues using MAPK3 mouse mAb with DAB staining.

Note

For research use only.