Product Information Sheet

Polyclonal Anti- Mitogen-activated protein kinase 3, *MAPK3*

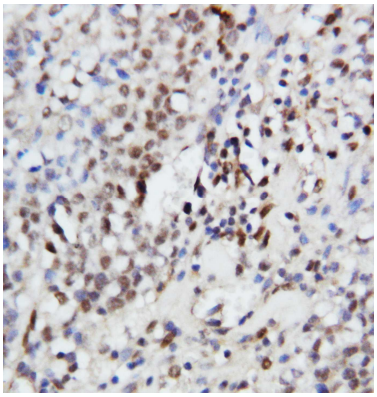
Catalogue No. PA1343

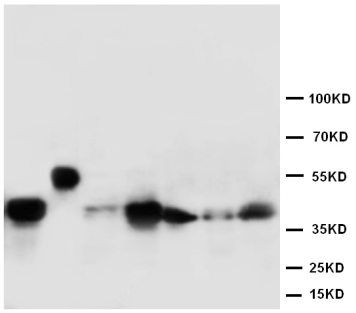
Lot No. 0131012074399

Ig type rabbit IgG

Size 100µg/vial

Specificity
Human, rat
No cross reactivity with other proteins.





Lane 1 : Human placenta tissue Lysate
Lane 2 : Marker
Lane 3 : HT1080 Whole Cell Lysate
Lane 4 : HeLa Whole Cell Lysate
Lane 5 : MM231 Whole Cell Lysate
Lane 6 : Raji Whole Cell Lysate
Lane 7 : Colo320 Whole Cell Lysate

Recommended application
Western blot

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminal of Human MAPK3 (365-379 aa), identical to the related mouse and rat sequence.

Purity
Immunogen affinity purified.

Application

	Concen-tration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat	Ms	-
IHC-P	-	-	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.
Optimal dilutions should be determined by end user.

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Reconstitution
0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage
At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

To reorder contact us at:
Antagene, Inc.
Toll Free: 1(866)964-2589
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BACKGROUND

Mitogen-activated protein kinase 3 is an enzyme that in humans is encoded by the MAPK3 gene.[1]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.[2]MAPK3 gene is mapped to human chromosome 16 by hybrid cell panel analysis.[3]

REFERENCE

1、Garcia F, Zalba G, Paez G, Encio I, de Miguel C (Apr 1999). "Molecular cloning and characterization of the human p44 mitogen-activated protein kinase gene". Genomics 50 (1): 69–78.

2、 "Entrez Gene: MAPK3 mitogen-activated protein kinase 3".

3、Charest, D. L., Mordret, G., Harder, K. W., Jirik, F., Pelech, S. L. Molecular cloning, expression, and characterization of the human mitogen-activated protein kinase p44erk1. Molec. Cell. Biol. 13: 4679-4690, 1993.