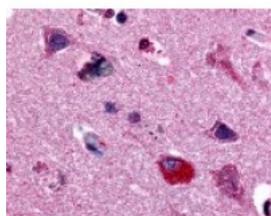




## MAPK3 Antibody

CATALOG NUMBER: 48-223



Immunohistochemistry staining of MAPK3 in neurons and glia tissue using MAPK3 Antibody.

### Specifications

<b>SPECIES REACTIVITY:</b>	Bovine, Dog, Gorilla, Hamster, Horse, Human, Monkey, Mouse, Pig, Rat
<b>TESTED APPLICATIONS:</b>	IHC
<b>APPLICATIONS:</b>	MAPK3 antibody can be used in immunohistochemistry starting at 1:50, and immunofluorescence.
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>SPECIFICITY:</b>	BLAST analysis of the peptide immunogen showed no homology with other human proteins, except MAPK1 (61%).
<b>IMMUNOGEN:</b>	MAPK3 antibody was raised against a peptide located near the internal domain of MAPK3 (Human).
<b>HOST SPECIES:</b>	Rabbit

### Properties

<b>PURIFICATION:</b>	Immunoaffinity Chromatography
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	PBS, 0.1% sodium azide.
<b>STORAGE CONDITIONS:</b>	MAPK3 antibody should be stored long term (months) at -80 °C and short term (days) at 4 °C. As with all antibodies avoid freeze/thaw cycles.
<b>CLONALITY:</b>	Polyclonal
<b>CONJUGATE:</b>	Unconjugated

### Additional Info

<b>ALTERNATE NAMES:</b>	MAPK3, ERK-1, ERT2, HUMKER1A, HS44KDAP, MAP kinase 1, MAP kinase isoform p44, MAPK 1, MAPK 3, p44, p44MAPK, p44-MAPK, p44ERK1, Insulin-stimulated MAP2 kinase, MAP kinase 3, p44-ERK1, ERK1, PRKM3
<b>ACCESSION NO.:</b>	P27361
<b>PROTEIN GI NO.:</b>	232066
<b>OFFICIAL SYMBOL:</b>	MAPK3
<b>GENE ID:</b>	5595

## Background

### BACKGROUND:

ERK1, a MAPK-type protein kinase, is a member of the Ras-MAPK pathway. This pathway modulates the activity of transcription factors, structural proteins, and other protein kinases, leading to biological responses such as cell proliferation and differentiation. Inactive ERK1 associates with MAPK/ERK kinases (MEK) 1 and 2 in the cytosol. Upon stimulation, MEK1/2 phosphorylates and activates ERK1 causing dissociation of the MEK/ERK complex. A portion of the activated ERK1 pool forms dimers and translocates to the nucleus to activate nuclear proteins such as ELK-1 and MSK1. Cytosolic ERK 1 acts on a different set of substrates, including MNK1/2 and MAPKAP-K1.

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FOR RESEARCH USE ONLY

December 13, 2016