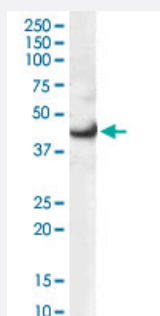


MAPK3 polyclonal antibody

Catalog # PAB6789

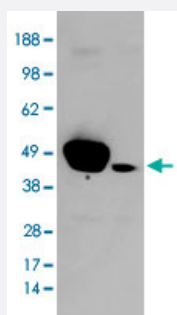
Size 100 ug

Applications



Western Blot (Cell lysate)

MAPK3 polyclonal antibody (Cat # PAB6789) (0.3 ug/mL) staining of 293 lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Western Blot (Transfected lysate)

HEK293 overexpressing ERK1 and probed with MAPK3 polyclonal antibody (Cat # PAB6789) (mock transfection in second lane), tested by Origene.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of MAPK3.
Immunogen	A synthetic peptide corresponding to human MAPK3.
Sequence	GGEPRRTEGVGP-C
Host	Goat
Theoretical MW (kDa)	43.1, 40.1, 38.3
Reactivity	Human
Specificity	No cross-reactivity expected with ERK2

Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:4000) Western Blot (0.1-0.3 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

MAPK3 polyclonal antibody (Cat # PAB6789) (0.3 ug/mL) staining of 293 lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Western Blot (Transfected lysate)

HEK293 overexpressing ERK1 and probed with MAPK3 polyclonal antibody (Cat # PAB6789) (mock transfection in second lane), tested by Origene.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — MAPK3

Entrez GeneID	5595
Protein Accession#	NP_002737.1
Gene Name	MAPK3
Gene Alias	ERK1, HS44KDAP, HUMKER1A, MGC20180, P44ERK1, P44MAPK, PRKM3
Gene Description	mitogen-activated protein kinase 3
Omim ID	601795

Gene Ontology

[Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

OTTHUMP00000174538|OTTHUMP00000174540|extracellular signal-regulated kinase 1|extracellular signal-related kinase 1

Publication Reference

- [OSBP is a cholesterol-regulated scaffolding protein in control of ERK 1/2 activation.](#)

Wang PY, Weng J, Anderson RG.

Science 2005 Mar; 307(5714):1472.

Application: WB, Human, HeLa cells

Pathway

- [Acute myeloid leukemia](#)
- [Adherens junction](#)
- [Axon guidance](#)
- [B cell receptor signaling pathway](#)
- [Bladder cancer](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Dorso-ventral axis formation](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)

- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [Insulin signaling pathway](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Melanogenesis](#)
- [Melanoma](#)
- [mTOR signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prion diseases](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [T cell receptor signaling pathway](#)
- [TGF-beta signaling pathway](#)
- [Thyroid cancer](#)
- [Toll-like receptor signaling pathway](#)
- [Type II diabetes mellitus](#)

- [Vascular smooth muscle contraction](#)
- [VEGF signaling pathway](#)

Disease

- [Asthma](#)
- [Autistic Disorder](#)
- [Disease Models](#)
- [Genetic Predisposition to Disease](#)