

Rabbit anti-Human ERK1/MAPK3 Polyclonal Antibody | anti-MAPK3 antibody

Anti-ERK1/MAPK3 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254408	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

ERK1/MAPK3; Polyclonal Antibody; Anti-ERK1/MAPK3 Antibody; Rabbit Polyclonal; MAPK3 Antibody; Rabbit PAb; Antigen Affinity Purified; mitogen-activated protein kinase 3; Anti-ERK-1 Antibody; Anti-ERK1 Antibody; Anti-ERT2 Antibody; Anti-HS44KDAP Antibody; Anti-HUMKER1A Antibody; Anti-p44-ERK1 Antibody; Anti-p44-MAPK Antibody; Anti-P44ERK1 Antibody; Anti-P44MAPK Antibody; Anti-PRKM3 Antibody; anti-MAPK3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human MAPK3
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-MAPK3 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Human MAPK3
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human MAPK3, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

MAPK3 was immunoprecipitated using: Lane A: 0.5 mg K562 Whole Cell Lysate, 4 uL anti-MAPK3 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-MAPK3 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 43 kDa. Observed band size: 43 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of MAPK3 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human MAPK3 polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to cytoplasm and nucleus.



WB (Western Blot)

Anti-MAPK3 rabbit polyclonal antibody at 1:500 dilution Lane A: Jurkat Whole Cell Lysate Lane B: K562 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit & IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 43 kDa Observed band size: 43 kDa (We are unsure as to the identity of these extra bands).

ADDITIONAL INFORMATION

Related Product Information for anti-MAPK3 antibody	MAPK3 (Mitogen-Activated Protein Kinase 3, also known as ERK1) is a Protein Coding gene. The protein encoded by the ERK1 gene is a member of the MAP kinase family. 3 alternatively spliced human isoforms have been reported. The protein is a serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and MAPK3/ERK1 are the 2 MAPKs that play an important role in the MAPK/ERK cascade. They participate also in a signaling cascade initiated by activated KIT and KITLG/SCF. ERK1 is widely expressed in the small intestine, colon, and other tissues. Diseases associated with MAPK3 include Neutrophil Migration and Pertussis.
Product Categories/Family for anti-MAPK3 antibody	Cancer Drug Targets; EGFR Signaling Pathway
References	Kolb RH, Greer PM, Cao PT, Cowan KH, Yan Y. ERK1/2 Signaling Plays an Important Role in Topoisomerase II Poison-Induced G2/M Checkpoint Activation. Tan M, ed. PLoS ONE. 2012;7(11):e50281.

NCBI AND UNIPROT INFORMATION

NCBI GI #	91718897
NCBI GeneID	5595
NCBI Accession #	NP_001035145.1
NCBI GenBank Nucleotide #	NM_001040056.2
UniProt Accession #	P27361; Q8NHX1; A8CZ58; B0LPG3
Molecular Weight	43,136 Da
NCBI Official Full Name	mitogen-activated protein kinase 3 isoform 2
NCBI Official Synonym Full Names	mitogen-activated protein kinase 3
NCBI Official Symbol	MAPK3
NCBI Official Synonym Symbols	ERK1; ERT2; ERK-1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK
NCBI Protein Information	mitogen-activated protein kinase 3; MAPK 1; MAP kinase isoform p44; insulin-stimulated MAP2 kinase; extracellular signal-related kinase 1; extracellular signal-regulated kinase 1; microtubule-associated protein 2 kinase
UniProt Protein Name	Mitogen-activated protein kinase 3
UniProt Gene Name	MAPK3
UniProt Synonym Gene Names	ERK1; PRKM3; MAP kinase 3; MAPK 3; ERK-1; p44-MAPK
UniProt Entry Name	MK03_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.