



Anti-MAPK3 polyclonal antibody (DPAB2669RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit polyclonal to human Erk1.
Antigen Description	ERK1 and ERK2 are widely expressed and are involved in the regulation of meiosis, mitosis, and postmitotic functions in differentiated cells. Many different stimuli, including growth factors, cytokines, virus infection, ligands for heterotrimeric guanine nucleotide-binding protein (G protein)-coupled receptors and transforming agents, activate the ERK1 and ERK2 pathways. When growth factors bind to the receptor tyrosine kinase, Ras interacts with Raf, the serine/threonine protein kinase and activates it as well. Once activated, Raf phosphorylates serine residue in 2 further kinases, MEK1/2, which in turn phosphorylates tyrosine/threonine in extracellular-signal regulated kinase(ERK) 1/2. Upon activation, the ERKs either phosphorylate a number of cytoplasmic targets or migrate to the nucleus, where they phosphorylate and activate a number of transcription factors such as c-Fos and Elk-1.
Immunogen	Recombinant human protein purified from E.coli (His-Erk1).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB
Positive Control	HepG2 cells
Format	HEPES with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol.
Size	100 µl

Preservative	0.03% Sodium Azide
Storage	Store for 1 year at -20 °C from date of shipment.

GENE INFORMATION

Gene Name	MAPK3 mitogen-activated protein kinase 3 [Homo sapiens]
Synonyms	MAPK3; mitogen-activated protein kinase 3; ERK1; ERT2; ERK-1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK; MAPK 1; MAP kinase 1; MAP kinase 3; MAP kinase isoform p44; insulin-stimulated MAP2 kinase; mitogen-activated protein kinase 1; extracellular signal-related kinase 1; extracellular signal-regulated kinase 1; microtubule-associated protein 2 kinase; mitogen-activated protein kinase 3; MGC20180; OTTHUMP00000163018; OTTHUMP00000174538; OTTHUMP00000174539; OTTHUMP00000174540; OTTHUMP00000174541; OTTHUMP00000233574; OTTHUMP00000233575; OTTHUMP00000233577; EC 2.7.11
Entrez Gene ID	5595
Protein Refseq	NP_001035145
UniProt ID	P27361
Chromosome Location	16p11.2
Pathway	ALK1 signaling events; ARMS-mediated activation; ATF-2 transcription factor network; Activated TLR4 signalling; Activation of the AP-1 family of transcription factors; Acute myeloid leukemia; Adherens junction; Advanced glycosylation endproduct receptor signaling; Aldosterone-regulated sodium reabsorption; Alpha-synuclein signaling; Alzheimer"s disease; Angiopoietin receptor Tie2-mediated signaling; Arf6 downstream pathway; Axon guidance; B cell receptor signaling pathway; BCR signaling pathway;
Function	ATP binding; MAP kinase activity; nucleotide binding; phosphatase binding; phosphotyrosine binding; protein binding; protein serine/threonine kinase activity