

MAPK1/3 (Phospho-Tyr205/222) Antibody

Catalog No: #11825

Package Size: #11825-1 50ul #11825-2 100ul

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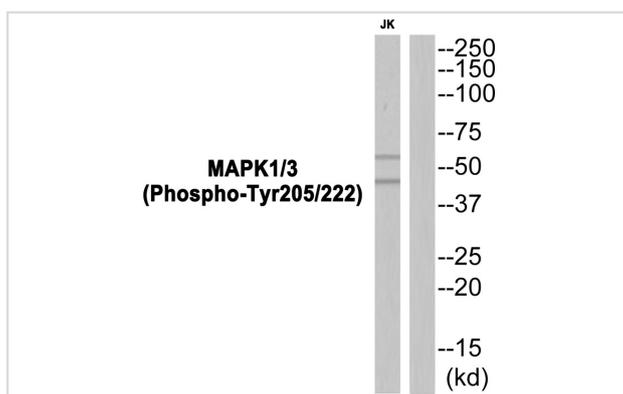
Description

Product Name	MAPK1/3 (Phospho-Tyr205/222) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of MAPK1/3 only when phosphorylated at tyrosine 205/222.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 205/222(K-G-Y(p)-T-K) derived from Human MAPK1/3 .
Target Name	MAPK1/3
Modification	Phospho
Other Names	ERK; ERT1; MAPK 1; MAPK2; ERK2
Accession No.	Swiss-Prot#: P28482/P27361; NCBI Gene#: 5594/5595; NCBI Protein#: NP_002736.3.
SDS-PAGE MW	44kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from JK cells using MAPK1/3 (Phospho-Tyr205/222) Antibody #11825. The lane on the right is treated with the antigen-specific peptide.

Background

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 as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene.

Owaki H., *Biochem. Biophys. Res. Commun.* 182:1416-1422(1992).

Dunham I., *Nature* 402:489-495(1999).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.