

Human Mitogen-Activated Protein Kinase 1 (MAPK1) ELISA Kit | MAPK1 elisa kit

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CATALOG #
AAA331884

REACTIVITY
Human

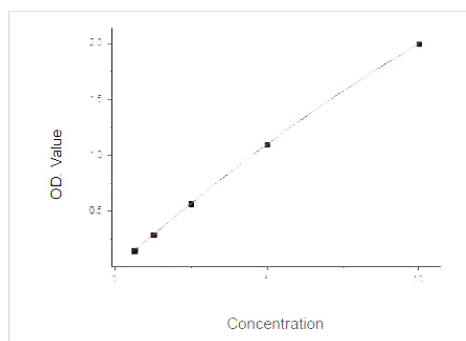
PRODUCT SYNONYMS

Mitogen-Activated Protein Kinase 1 (MAPK1); Human Mitogen-Activated Protein Kinase 1 (MAPK1) ELISA Kit; MAPK1; ERK; ERK2; ERT1; MAPK2; P42MAPK; PRKM1; PRKM2; p38; p40; p41; p41mapk; extracellular signal-regulated kinase 2; extracellular signal-regulated kinase-2; mitogen-activated protein kinase 2; protein tyro; MAPK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Mitogen-activated protein kinase 1 (MAPK1) ELISA Kit has high sensitivity and excellent specificity for detection of Human MAPK1. No significant cross-reactivity or interference between Human MAPK1 and analogues was observed.
Sequence Length	360
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	0.625 ng/ml - 10 ng/ml
Sensitivity	< 0.05ng/ml
Intra-assay Precision	Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%)?9%.
Inter-assay Precision	Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%)?11%.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MAPK1 elisa kit	Background: Mitogen-activated protein kinase 1 also known as MAPK1, p42MAPK, and ERK2is 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. Principle of the Assay: Human Mitogen-activated protein kinase 1 (MAPK1) ELISA Kit employs a two-site sandwich ELISA to quantitate MAPK1 in samples. An antibody specific for MAPK1 has been pre-coated onto a microplate. After removing any unbound substances, HRP-Conjugated Human MAPK1 detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of MAPK1 bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	66932916
NCBI GeneID	5594
NCBI Accession #	NP_002736.3
NCBI GenBank Nucleotide #	NP_002736.3
UniProt Accession #	P28482
NCBI Official Full Name	mitogen-activated protein kinase 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase 1
NCBI Official Symbol	MAPK1
NCBI Official Synonym Symbols	ERK; p38; p40; p41; ERK2; ERT1; ERK-2; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk; p42-MAPK
NCBI Protein Information	mitogen-activated protein kinase 1
UniProt Protein Name	Mitogen-activated protein kinase 1
UniProt Gene Name	MAPK1
UniProt Synonym Gene Names	ERK2; PRKM1; PRKM2; MAP kinase 1; MAPK 1; ERK-2; p42-MAPK; MAP kinase 2; MAPK 2
UniProt Entry Name	MK01_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.