

Rat Extracellular Signal Regulated Kinase 2 (ERK2) ELISA Kit | ERK2 elisa kit

Rat Extracellular Signal Regulated Kinase 2 (ERK2) ELISA Kit

CATALOG #
AAA68402

REACTIVITY
Rat

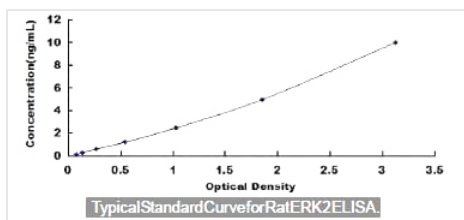
PRODUCT SYNONYMS

Extracellular Signal Regulated Kinase 2 (ERK2); Rat Extracellular Signal Regulated Kinase 2 (ERK2) ELISA Kit; MAPK1; P38; P40; ERK2; ERT1; MAPK2; P42MAPK; P42-MAPK; PRKM1; PRKM2; P41; P41mapk; P41-mapk; Mitogen-Activated Protein Kinase 1; Mitogen-activated protein kinase 2; ERK2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ERK2. No significant cross-reactivity or interference between ERK2 and analogues was observed.
Sequence Length	358
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	<0.061ng/mL.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ERK2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ERK2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ERK2 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of ERK2 in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ERK2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ERK2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ERK2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of ERK2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	16758698
NCBI GeneID	116590
NCBI Accession #	NP_446294.1
NCBI GenBank Nucleotide #	NM_053842.2
UniProt Accession #	P63086; P27703
Molecular Weight	41,276 Da
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	ERT1; Erk2; ERK-2; 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; Mapk; Prkm1; MAP kinase 1; MAPK 1; ERK-2; p42-MAPK; MAP kinase 2; MAPK 2

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.