

Human Extracellular Signal Regulated Kinase 1 (ERK1) ELISA Kit | ERK1 elisa kit

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CATALOG #
AAA184628

REACTIVITY
Human

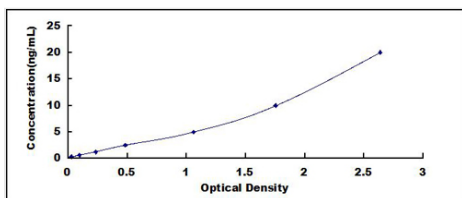
PRODUCT SYNONYMS

Extracellular Signal Regulated Kinase 1 (ERK1); Human Extracellular Signal Regulated Kinase 1 (ERK1) ELISA Kit; HS44KDAP; HUMKER1A; P44ERK1; P44MAPK; PRKM3; MAPK3; ERT2; Mitogen-Activated Protein Kinase 3; Insulin-stimulated MAP2 kinase; Microtubule-associated protein 2 kinase; ERK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Extracellular Signal Regulated Kinase 1 (ERK1). No significant cross-reactivity or interference between Extracellular Signal Regulated Kinase 1 (ERK1) and analogues was observed.
Sequence Length	352
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.118ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Extracellular Signal Regulated Kinase 1 (ERK1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Extracellular Signal Regulated Kinase 1 (ERK1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ERK1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Extracellular Signal Regulated Kinase 1 (ERK1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Extracellular Signal Regulated Kinase 1 (ERK1). 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 Extracellular Signal Regulated Kinase 1 (ERK1), 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 Extracellular Signal Regulated Kinase 1 (ERK1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	406605073
Molecular Weight	41,146 Da
NCBI Official Full Name	Extracellular signal-regulated kinase 1
UniProt Protein Name	Mitogen-activated protein kinase
UniProt Gene Name	BN7_3010

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/extracellular-signal-regulated-kinase-1-erk1/184628>