

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

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CATALOG #
AAA86929

REACTIVITY
Human

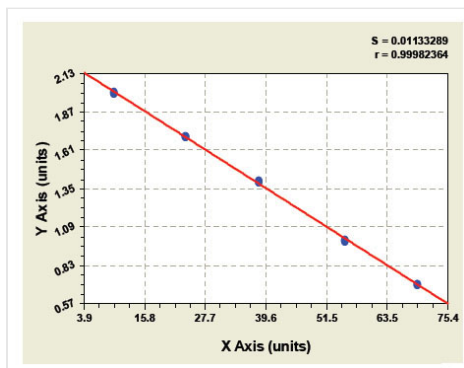
PRODUCT SYNONYMS

Extracellular Signal Regulated Kinase 1; Human Extracellular Signal Regulated Kinase 1 ELISA Kit; ERK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	10-250ng/mL
Sensitivity	1.0ng/mL
Intended Uses	This ERK1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human ERK1. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ERK1 elisa kit

Principle of the Assay: ERK1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-ERK1 antibody and an ERK1-HRP conjugate. The assay sample and buffer are incubated together with ERK1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ERK1 concentration since ERK1 from samples and ERK1-HRP conjugate compete for the anti-ERK1 antibody binding site. Since the number of sites is limited, as more sites are occupied by ERK1 from the sample, fewer sites are left to bind ERK1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ERK1 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1169549
Molecular Weight	48,623 Da
UniProt Protein Name	Extracellular signal-regulated kinase 1
UniProt Gene Name	CEK1
UniProt Synonym Gene Names	ERK1; CaO19.10404; CaO19.2886; ERK1; MAPK 1
UniProt Entry Name	ERK1_CANAL

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/erk1-human-elisa-kits/extracellular-signal-regulated-kinase-1/86929>