

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

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CATALOG #
AAA87415

REACTIVITY
Rat

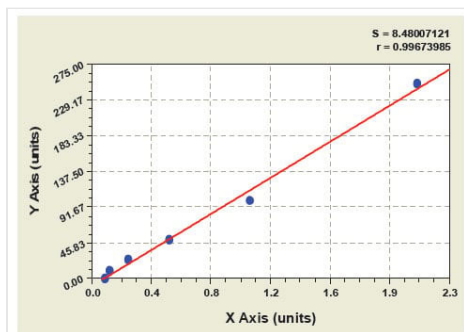
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive or Sandwich
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 Rat 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 quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a monoclonal antibody specific for ERK1. Standards or samples are then added to the microtiter plate wells and ERK1 if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount of ERK1 present in the sample, a standardized preparation of horseradish peroxidase (HRP) -conjugated polyclonal antibody, specific for ERK1 are added to each well to "sandwich" the ERK1 immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain ERK1 and enzyme-conjugated antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. 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-rat-elisa-kits/extracellular-signal-regulated-kinase-1/87415>