

Canine Extracellular Signal Regulated Kinase ELISA Kit | ERK elisa kit

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CATALOG #
AAA97490

REACTIVITY
Canine

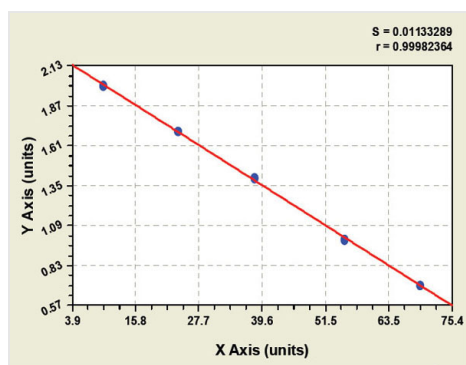
PRODUCT SYNONYMS

Extracellular Signal Regulated Kinase; Canine Extracellular Signal Regulated Kinase ELISA Kit; ERK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	0.1 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ERK elisa kit

Intended Uses: This ERK ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine ERK. This ELISA kit for research use only!

Principle of the Assay: ERK ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-ERK antibody and an ERK-HRP conjugate. The assay sample and buffer are incubated together with ERK-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 ERK concentration since ERK from samples and ERK-HRP conjugate compete for the anti-ERK antibody binding site. Since the number of sites is limited, as more sites are occupied by ERK from the sample, fewer sites are left to bind ERK-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ERK concentration in each sample is interpolated from this standard curve.

Product Categories/Family for ERK elisa kit

Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	1486363
NCBI GeneID	6300
UniProt Accession #	P53778; Q14260; Q99588; Q99672
Molecular Weight	41,940 Da
NCBI Official Full Name	extracellular signal regulated kinase
NCBI Official Synonym Full Names	mitogen-activated protein kinase 12
NCBI Official Symbol	MAPK12
NCBI Official Synonym Symbols	ERK3; ERK6; SAPK3; PRKM12; SAPK-3; P38GAMMA
NCBI Protein Information	mitogen-activated protein kinase 12; ERK-6; MAPK 12; MAP kinase 12; MAP kinase p38 gamma; stress-activated protein kinase 3; mitogen-activated protein kinase 3; extracellular signal-regulated kinase 6; mitogen-activated protein kinase p38 gamma
UniProt Protein Name	Mitogen-activated protein kinase 12
UniProt Gene Name	MAPK12
UniProt Synonym Gene Names	ERK6; SAPK3; MAP kinase 12; MAPK 12; ERK-6
UniProt Entry Name	MK12_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.

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Online datasheet: <https://stage.aaabiotech.com/erk-canine-elisa-kits/extracellular-signal-regulated-kinase/97490>