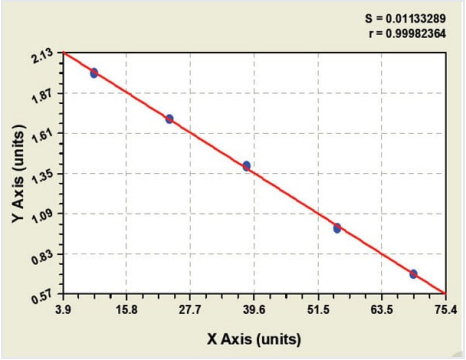
Extracellular Signal Regulated Kinase 1 (ERK1) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Extracellular Signal Regulated Kinase 1 (ERK1), ELISA Kit
Full Product Name	Chicken Extracellular Signal Regulated Kinase 1 ELISA Kit
Product Gene Name	ERK1 elisa kit
Species Reactivity	Chicken
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Sensitivity	1.0 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	47,836 Da
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for ERK1 elisa kit	**Intended Uses:** This ERK1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Chicken ERK1. This ELISA kit for research use only! **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.
Other Notes	Small volumes of ERK1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ERK1 purchase	MBS753786 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Extracellular Signal Regulated Kinase 1 (ERK1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ERK1. The ELISA analytical biochemical technique of the MBS753786 kit is based on ERK1 antibody-ERK1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ERK1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ERK1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of ERK1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ERK1. It may not necessarily be applicable to this product.

NCBI GI #	353558797
NCBI Accession #	C4YGK0.1
UniProt Secondary Accession #	P28869; P87079; P87080; P87081; P87082; P87083; P87084; P87085; P87086; P87322
NCBI Official Full Name	Extracellular signal-regulated kinase 1
UniProt Protein Name	Extracellular signal-regulated kinase 1
UniProt Synonym Protein Names	MAP kinase 1; MAPK 1
Protein Family	Extracellular signal-regulated kinase
UniProt Gene Name	CEK1
UniProt Synonym Gene Names	ERK1; CAWG_03179; ERK1; MAPK 1
UniProt Entry Name	ERK1_CANAW
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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