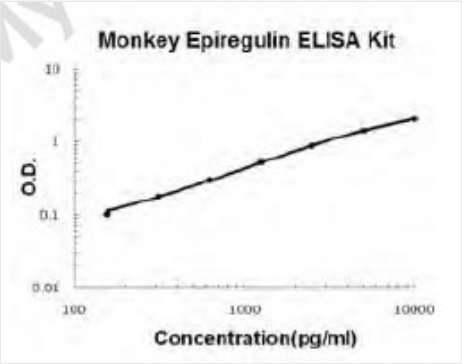
Epiregulin (EREG) ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	Epiregulin (EREG), ELISA Kit
Full Product Name	Monkey primate Epiregulin PicoKine ELISA Kit
Product Gene Name	EREG elisa kit
Product Synonym Names	Proepiregulin; Epiregulin; EPR; EREG
Species Reactivity	Monkey There is no detectable cross-reactivity with other relevant proteins.
Assay Type	Quantitative Sandwich
Detection Range	156pg/ml-10000pg/ml
Sensitivity	<10pg/ml
Specificity	Natural and recombinant 215 Monkey primate Epiregulin
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision
Molecular Weight	19044 MW
OMIM	D30783 mRNA
3D Structure	ModBase 3D Structure for O14944
Production Time	Due to severe delay and raw materials shortage, production time may takes between 5-8 weeks.
Product Categories/Family for EREG elisa kit	Signal Transduction; Growth Factors/Hormones; EGF; Cancer; Tumor Biomarkers
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for EREG elisa kit	ELISA (EIA)
Related Product Information for EREG elisa kit	Principle of the Assay: 215 Monkey primate Epiregulin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Monkey primate Epiregulin has been precoated onto 96-well plates. Standards(E.coli, V60-L108) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Monkey primate Epiregulin is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the 215 Monkey primate Epiregulin amount of sample captured in plate. Background: Epiregulin (EPR) is a protein that in humans is encoded by the EREG gene. It is a member of the epidermal growth factor family. Epiregulin can function as a ligand of epidermal growth factor receptor (EGFR), as well as a ligand of most members of the ERBB (v-erb-b2 oncogene homolog) family of tyrosine-kinase receptors. The secondary structure at the C-terminus epiregulin is different from other epidermal growth factor family ligands because of the lack of hydrogen bonds. The structural difference at the C-terminus may provide an explanation for the reduced binding affinity of epiregulin to the ERBB receptors.

Other Notes	Small volumes of EREG 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 EREG purchase	MBS1751111 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Epiregulin (EREG) 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 EREG. The ELISA analytical biochemical technique of the MBS1751111 kit is based on EREG antibody-EREG antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect EREG antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, EREG. 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 EREG elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	4557567
NCBI GeneID	2069
NCBI Accession #	NP_001423.1
UniProt Primary Accession #	O14944
UniProt Secondary Accession #	Q6FH69; B2RC66
UniProt Related Accession #	O14944
GenBank Nucleotide #	NM_001432.2
NCBI Official Full Name	proepiregulin preproprotein
NCBI Official Synonym Full Names	epiregulin
NCBI Official Symbol	EREG
NCBI Official Synonym Symbols	ER; Ep; EPR
UniProt Protein Name	Proepiregulin
Protein Family	Proepiregulin
UniProt Gene Name	EREG
UniProt Synonym Gene Names	EPR
NCBI Protein Information	proepiregulin

NCBI Summary for EREG	This gene encodes a secreted peptide hormone and member of the epidermal growth factor (EGF) family of proteins. The encoded protein is a ligand of the epidermal growth factor receptor (EGFR) and the structurally related erb-b2 receptor tyrosine kinase 4 (ERBB4). The encoded protein may be involved in a wide range of biological processes including inflammation, wound healing, oocyte maturation, and cell proliferation. Additionally, the encoded protein may promote the progression of cancers of various human tissues. [provided by RefSeq, Jul 2015]
UniProt Comments for EREG	Ligand of the EGF receptor/EGFR and ERBB4. Stimulates EGFR and ERBB4 tyrosine phosphorylation (PubMed:9419975). Contributes to inflammation, wound healing, tissue repair, and oocyte maturation by regulating angiogenesis and vascular remodeling and by stimulating cell proliferation (PubMed:24631357).
Research Articles on EREG	**1.** we showed that epidermal growth factor receptors (EGFR) were constitutively activated in metastatic lung subtypes of salivary adenoid cystic carcinoma cells, and that this activation was induced by autocrine expression of epiregulin
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/ereg-monkey-elisa-kits/epiregulin/1751111