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Epiregulin ELISA Kit



Overview

Quantity:	1 kit
Target:	Epiregulin (EREG)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	125 pg/mL - 8000 pg/mL
Minimum Detection Limit:	125 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: Epiregulin, EPR, ER, Ereg, EREG_HUMAN, Proepiregulin

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.

Gene Name: EREG

Production: Natural and recombinant mouse Epiregulin. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: V53-L101

Target Details

Target:	Epiregulin (EREG)	
Alternative Name:	Epiregulin (EREG Products)	
Gene ID:	13874	
NCBI Accession:	NP_031976	
UniProt:	Q61521	
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Muscle Cell Differentiation	

Application Details

App	lication	Notes:

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 8000pg/mL, 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL mouse Epiregulin standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse Epiregulin standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage Comment:

Storage: RT,4 °C,-20 °C

ELISA Dilution: 125pg/mL-8000pg/mL

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room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.