

Human Epiregulin ELISA Kit

Catalog No: #EK5644

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Description

Product Name	Human Epiregulin ELISA Kit
Specificity	Human
Crossing Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen Type	E.coli, V60-L108
Other Names	Proepiregulin; Epiregulin; EPR; EREG;
Accession No.	O14944
Cell Localization	Epiregulin: Secreted, extracellular space.

Application Details

sensitivity:10pg mlDetect Range:156pg ml-10 000pg ml
sample_type:cell culture supernates cell lysates tissue homogenates serum and plasma (heparin EDTA).
capture_antibody:monoclonal antibody from mouse
detection_antibody:polyclonal antibody from goat
gene_name:EREG
protein_name:Proepiregulin
gene_full_name:Proepiregulin
tissue_specificity: In normal adults expressed predominantly in the placenta and peripheral blood leukocytes. High levels were detected in carcinomas of the bladder lung kidney and colon.
sequence_similarities:tmb_incubation:15-20min
research_category:signal transduction|growth factors/hormones|egf|cancer|tumor biomarkers

Product Description

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Epiregulin

Background

protein_function: 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). 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 of 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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.