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Datasheet for ABIN5510630

Epiregulin ELISA Kit

1 Image

Overview

Quantity: 96 tests

Target: Epiregulin (EREG)

Binding Specificity: AA 60-108

Reactivity: Pig

Method Type: Sandwich ELISA

Application: ELISA

Product Details

Purpose: Sandwich High Sensitivity ELISA kit for Quantitative Detection of Pig porcine Epiregulin

Brand: PicoKine™

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: E.coli, V60-L108

Cross-Reactivity (Details): There is no detectable cross-reactivity with other relevant proteins.

Characteristics: 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. .

Target Details

Target: Epiregulin (EREG)

Target Details

Alternative Name: [EREG \(EREG Products\)](#)

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). .

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.

Synonyms: Proepiregulin, Epiregulin, EPR, EREG,

Full Gene Name: Proepiregulin

Cellular Localisation: Epiregulin: Secreted, extracellular space.

UniProt: [O14944](#)

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Regulation of Muscle Cell Differentiation](#)

Application Details

Plate: Pre-coated

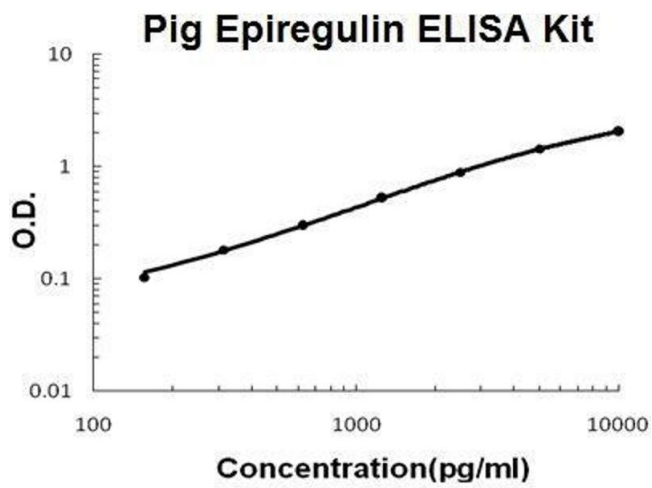
Restrictions: For Research Use only

Handling

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

Expiry Date: 12 months



ELISA

Image 1. Pig Epiregulin PicoKine ELISA Kit standard curve