Datasheet for ABIN6720321

EGF ELISA Kit

1 Image

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Overview

Quantity:	1 kit
Target:	EGF
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	4.7 pg/mL - 300 pg/mL
Minimum Detection Limit:	4.7 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin - citrate), Serum, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: AI790464, Beta urogastrone, Epidermal growth factor, HOMG4, OTTHUMP00000219721, OTTHUMP00000219722, Pro epidermal growth factor, Pro epidermal growth factor precursor (EGF), URG, Urogastrone Background: Epidermal growth factor or EGF is a growth factor that plays an important role in the regulation of cell growth, proliferation, and differentiation by binding to its receptor EGFR. Human EGF is a 6045-Da protein with 53 amino acid residues and three intramolecular disulfide bonds. EGF acts by binding with high affinity to epidermal growth factor receptor(EGFR) on the cell surface and stimulating the intrinsic protein-tyrosine kinase activity of the receptor. EGF

Product Details

results in cellular proliferation, differentiation, and survival. It also has a profound effect on the differentiation of specific cells in vivo and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin. EGF has strong expression in kidney, salivary gland, cerebrum, and prostate, moderate expression in trachea and thyroid, and low expression in bone marrow, heart, spleen, thymus, uterus, and colon. No expression was detected in adrenal gland, liver, lung, cerebellum, placenta, and small intestine.

Gene Name: EGF

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

Standard: Expression system for standard: E.coli, Immunogen sequence: N971-R1023

Target Details

Target:	EGF
Alternative Name:	EGF (EGF Products)
Gene ID:	1950
NCBI Accession:	NP_001171601
UniProt:	P01133
Pathways:	NF-kappaB Signaling, RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Carbohydrate Metabolic Process, Hepatitis C, Protein targeting to Nucleus, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling, EGFR Downregulation

Application Details

Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 300pg/mL, 150pg/mL, 75pg/mL, 37.5pg/mL, 18.8pg/mL, 9.4pg/mL, 4.7pg/mL human EGF 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 human cell culture supernates, serum, plasma(heparin, EDTA, citrate) or urine to each empty well. It is recommended that each human EGF standard solution and each sample be measured in duplicate. Blood Product Anticoagulant: Heparin Sodium ELISA Dilution: 4.7pg/mL-300pg/mL
Sample Volume:	100 µL

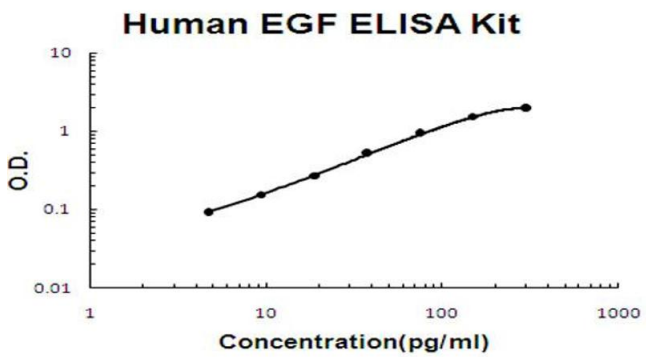
Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at 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.

Images



ELISA

Image 1. Human EGF Accusignal ELISA Kit Human EGF AccuSignal ELISA Kit standard curve. Assay Range: 4.7pg/ml-300pg/ml. Sensitivity: <1pg/ml.