

Datasheet for KOA0156**Human EGF ELISA Kit****Overview**

Description:	Human EGF AccuSignal ELISA Kit - KOA0156
Item No.:	KOA0156
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	4.7 pg/ml - 300 pg/ml

Product Details

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 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.
Synonyms:	AI790464, Beta urogastrone, Epidermal growth factor, HOMG4, OTTHUMP00000219721, OTTHUMP00000219722, Pro epidermal growth factor, Pro epidermal growth factor precursor (EGF), URG, Urogastrone
Detection Kit Type:	ELISA Kit
Detection Range:	4.7 pg/ml - 300 pg/ml
Sensitivity:	<1 pg/ml

Target Details

Gene Name:	EGF
Reactivity:	Human

Immunogen:	Expression system for standard: E.coli; Immunogen sequence: N971-R1023
Purity/Specificity:	Natural and recombinant human EGF. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P01133 • NCBI - NP_001171601.1 • GenelD - 1950 • KOA0156 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant:	Heparin Sodium
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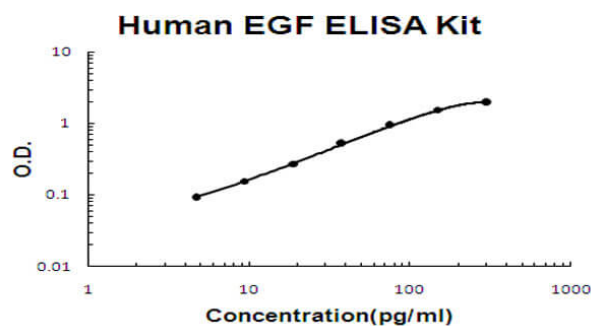
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	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.
Expiration:	See kit insert for complete instructions.

Images

ELISA

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

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.