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Datasheet for KOA0158

Human EGFR ELISA Kit

Overview

Description:	Human EGFR AccuSignal ELISA Kit - KOA0158
Item No.:	KOA0158
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10000 pg/ml

Product Details

Background:	The epidermal growth factor receptor(EGFR; ErbB-1; HER1 in humans) is the cell-surface receptor for members of the epidermal growth factor family(EGF-family) of extracellular protein ligands.1 It is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR(ErbB-1), HER2/c-neu(ErbB-2), Her 3(ErbB-3) and Her 4(ErbB-4). EGFR exists on the cell surface and is activated by binding of its specific ligands, including epidermal growth factor and transforming growth factor alpha(TGFalpha). EGFR and its ligands are cell signaling molecules involved in diverse cellular functions, including cell proliferation, differentiation, motility, and survival, and in tissue development. Mutations that lead to EGFR overexpression(known as upregulation) or overactivity have been associated with a number of cancers, including lung cancer and glioblastoma multiforme. In this latter case a more or less specific mutation of EGFR, called EGFRvIII is often observed.
Synonyms:	Avian erythroblastic leukemia viral (v erb b) oncogene homolog, Avian erythroblastic leukemia viral (verbb) oncogene homolog, Cell growth inhibiting protein 40, Cell proliferation inducing protein 61, EGF R, EGFR, EGFR_HUMAN, Epidermal growth factor receptor, Epidermal growth factor receptor, erbb 1, Erbb1, HER1, mENA, Oncogene ERBB, , PIG61, Proto-oncogene c-ErbB-1, Receptor tyrosine protein kinase ErbB 1, Receptor tyrosine protein kinase ErbB1, Receptor tyrosine-protein kinase ErbB-1, RP23-295E4.1, Urogastrone
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<1 pg/ml

Target Details

Gene Name:	EGFR
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: M1-S645
Purity/Specificity:	Natural and recombinant human EGFR. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P00533 • NCBI - NP_005219.2 • GeneID - 1956 • KOA0158 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 313pg/ml, 156pg/ml human EGFR 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) or human milk to each empty well. It is recommended that each human EGFR 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.
Other:	Expiration Dates: 4° C - 01/12/18 -20° C - 07/13/18

Formulation

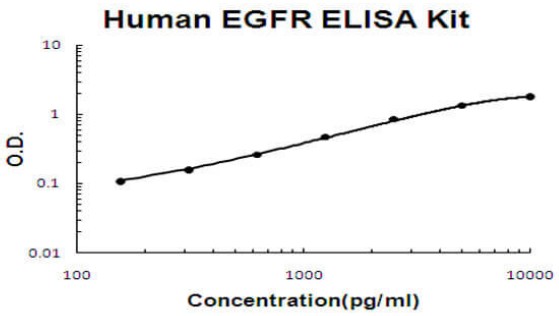
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

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 EGFR AccuSignal ELISA standard curve. Assay Range: 156pg/ml-10000pg/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.