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Datasheet for KOA0361

Mouse Amphiregulin - AR ELISA Kit

Overview

Description:	Mouse Amphiregulin/AR AccuSignal ELISA Kit - KOA0361
Item No.:	KOA0361
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	15.6 pg/ml - 1000 pg/ml

Product Details

Background:	Amphiregulin, also known as AREG, is a protein that is encoded by the AREG gene. The protein encoded by this gene is a member of the epidermal growth factor family. This gene is mapped to mouse chromosome 5. It is an autocrine growth factor as well as a mitogen for astrocytes, Schwann cells, fibroblasts. Amphiregulin is related to to epidermal growth factor(EGF) and transforming growth factor alpha(TGF-alpha). This protein interacts with the epidermal growth factor receptor to promote the growth of normal epithelial cells. It has been found that transgene integration and subsequent expression of Amphiregulin in basal keratinocytes correlated with a psoriasis-like skin phenotype, and its expression was increased in parallel with typical Th2 cytokines. Amphiregulin is also an important paracrine mediator of estrogen function specifically required for puberty-induced ductal elongation but not for any earlier or later developmental stages, and it can enhance resistance to nematodes.
Synonyms:	A REG, AR|AREG, Colorectum cell derived growth factor, CRDGF, MGC13647, OTTHUMP00000219184, Schwannoma derived growth factor, SDGF
Detection Kit Type:	ELISA Kit
Detection Range:	15.6 pg/ml - 1000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	AREG
Reactivity:	Mouse

Immunogen:	Expression system for standard: E.coli; Immunogen sequence: V100-A248
Purity/Specificity:	Natural and recombinant mouse Amphiregulin. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P31955 • NCBI - NP_033834.1 • GeneID - 11839 • KOA0361 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.3pg/ml, 15.6pg/ml mouse Amphiregulin standard solutions into the pre-coated 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. We recommend that each mouse Amphiregulin standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

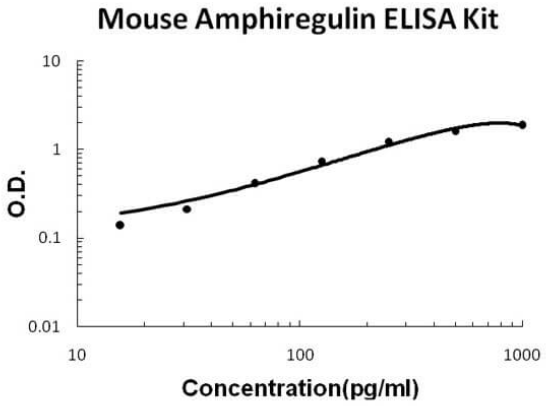
Formulation

Anticoagulant:	Heparin Sodium

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
Mouse Amphiregulin/AR AccuSignal ELISA Kit standard curve. Assay Range: 15.6pg/ml-1000pg/ml.
Sensitivity: <10pg/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.