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Datasheet for ABIN2859282 Amphiregulin ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	Amphiregulin (AREG)
Binding Specificity:	AA 100-248
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Amphiregulin/AR
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: V100-A248
Specificity:	Expression system for standard: E.coli Immunogen sequence: V100-A248
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

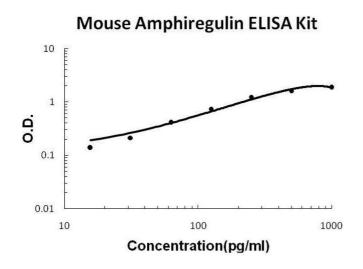
Target:	Amphiregulin (AREG)
Alternative Name:	AREG (AREG Products)
Background:	Protein Function: Ligand of the EGF receptor/EGFR. Autocrine growth factor as well as a
	mitogen for a broad range of target cells including astrocytes, Schwann cells and fibroblasts.
	Background: Amphiregulin, also known 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
	forastrocytes, Schwann cells, fibroblasts. Amphiregulin is related to toepidermal 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: Amphiregulin,AR,Schwannoma-derived growth factor,SDGF,Areg,Sdgf,
	Full Gene Name: Amphiregulin
	Cellular Localisation: Membrane, Single-pass membrane protein.
Gene ID:	11839
UniProt:	P31955
Pathways:	RTK Signaling, EGFR Signaling Pathway
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.

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Comment:	Sequence similarities: Belongs to the amphiregulin family.
Plate:	Pre-coated
Protocol:	mouse Amphiregulin ELISA Kit was based on standard sandwich enzyme-linked immune-
	sorbent assay technology. A monoclonal antibody from rat specific for Amphiregulin has been
	precoated onto 96-well plates. Standards(E.coli, V100-A248) and test samples are added to the
	wells, a biotinylated detection polyclonal antibody from goat specific for Amphiregulin is added
	subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase
	Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP
	substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to
	produce a blue color product that changed into yellow after adding acidic stop solution. The
	density of yellow is proportional to the mouse Amphiregulin amount of sample captured in
	plate.
Assay Procedure:	Aliquot 0.1 mL 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 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of
	each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin,
	EDTA) to each empty well. See "Sample Dilution Guideline" above for details. We recommend
	that each mouse Amphiregulin standard solution and each sample is measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 117, Standard deviation: 7.49, CV(%): 6.4
	• Sample 2: n=16, Mean(pg/ml): 289, Standard deviation: 15.32, CV(%): 5.3
	 Sample 3: n=16, Mean(pg/ml): 469, Standard deviation: 22.5, CV(%): 4.8,
	 Sample 1: n=24, Mean(pg/ml): 136, Standard deviation: 10.61, CV(%): 7.8 Sample 2: n=24, Mean(ng/ml): 212, Standard deviation: 10.41, CV(%): 6.2
	 Sample 2: n=24, Mean(pg/ml): 313, Standard deviation: 19.41, CV(%): 6.2 Sample 3: n=24, Mean(pg/ml): 514, Standard deviation: 25.7, CV(%): 5
	Sample 3. Π – 24, Weah(pg/ Π). 314, Standard deviation. 23.7, 67(7). 3
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

Application Details

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ELISA

Image 1. Mouse Amphiregulin/AR PicoKine ELISA Kit standard curve