

Datasheet for ABIN6720359

Amphiregulin ELISA Kit

1 Image



Overview

Quantity:	1 kit
Target:	Amphiregulin (AREG)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Human Amphiregulin (AR) Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Breast Milk, Cell Culture Supernatant, Plasma (EDTA - heparin), Saliva, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant human Amphiregulin. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	Antibody-coated 96-well plateTarget Protein Standard

Detection antibody

- Detection reagent
- · Diluent buffers
- Wash buffers
- · Substrate Solution
- · Stop solutions
- · Adhesive covers

Target Details

Target:	Amphiregulin (AREG)
Alternative Name:	Amphiregulin(AR) (AREG Products)
Background:	Synonyms: A REG, AR, AREG, Colorectum cell derived growth
	Background: Amphiregulin, also known as AREG, is a protein that in humans 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 4q13.1. It is an autocrine growth factor as well as a mitogen for
	astrocytes, Schwann cells, fibroblasts. Amphiregulin is related 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.
Gene ID:	374
NCBI Accession:	NP_001648
UniProt:	P15514
Pathways:	RTK Signaling, EGFR Signaling Pathway
Application Details	
Application Notes:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the
	1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human
	Amphiregulin 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), saliva or human milk to each

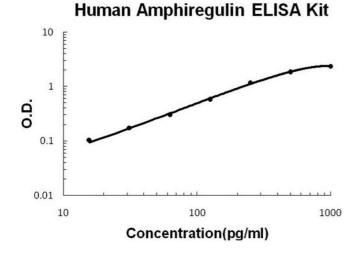
Application Details

	empty well. It is recommended that each human Amphiregulin standard solution and each sample be measured in duplicate.
Comment:	Standard: Expression system for standard: E.coli, Immunogen sequence: S101-K198
Sample Volume:	100 μL
Plate:	Pre-coated
Restrictions:	For Research Use only
Handling	
Otomorou	4.0 20.0

Storage:	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

Expiry Date:



12 months

ELISA

Image 1. Human Amphiregulin(AR) Accusignal ELISA Kit Human Amphiregulin(AR) AccuSignal ELISA Kit standard curve. Assay Range: 15.6 pg/ml-1000 pg/ml. Sensitivity: <10pg/ml.