

Datasheet for ABIN6720359

**Amphiregulin ELISA Kit****1** Image[Go to Product page](#)

## 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:	<ul style="list-style-type: none"><li>• Antibody-coated 96-well plate</li><li>• Target Protein Standard</li><li>• Detection antibody</li></ul>

## Product Details

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

## Target Details

Target:	Amphiregulin (AREG)
Alternative Name:	Amphiregulin(AR) ( <a href="#">AREG Products</a> )
Background:	<p>Synonyms: A REG, AR, AREG, Colorectum cell derived growth</p> <p>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.</p>
Gene ID:	374
NCBI Accession:	<a href="#">NP_001648</a>
UniProt:	<a href="#">P15514</a>
Pathways:	<a href="#">RTK Signaling, EGFR Signaling Pathway</a>

## 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
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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

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.
Expiry Date:	12 months

Images

