

Datasheet for ABIN6719952

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

Overview

Quantity:	1 kit
Target:	Amphiregulin (AREG)
Reactivity:	Mouse
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:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric

Characteristics:	<p>Synonyms: A REG, ARJAREG, Colorectum cell derived growth factor, CRDGF, MGC13647, OTTHUMP00000219184, Schwannoma derived growth factor, SDGF</p> <p>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 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</p>
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Product Details

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 Name: AREG

Production: Natural and recombinant mouse Amphiregulin. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: V100-A248

Target Details

Target:	Amphiregulin (AREG)
Alternative Name:	Amphiregulin - AR (AREG Products)
Gene ID:	11839
NCBI Accession:	NP_033834
UniProt:	P31955
Pathways:	RTK Signaling, EGFR Signaling Pathway

Application Details

Application Notes:	<p>Application Note: 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, 31.3pg/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. We recommend that each mouse Amphiregulin standard solution and each sample is measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p> <p>ELISA Dilution: 15.6pg/mL-1000pg/mL</p>
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	RT,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

