

Human Amphiregulin ELISA Kit | AREG elisa kit

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CATALOG # AAA105923	REACTIVITY Human	APPLICATIONS ELISA
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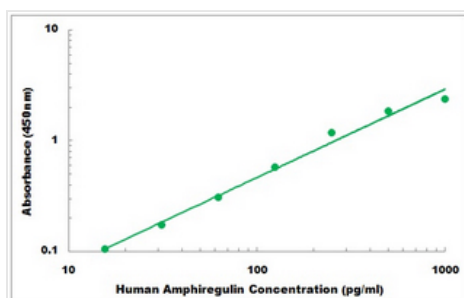
PRODUCT SYNONYMS

Amphiregulin; Human Amphiregulin ELISA Kit; SDGF; AR; Colorectum cell-derived growth factor; CRDGF; AREG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Amphiregulin ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Amphiregulin proteins within the range of 15.6 pg/ml - 1000 pg/ml.
Sequence Length	252
Samples	Cell Culture Supernatants, Serum, Plasma
Sensitivity	The minimum detectable dose of Human Amphiregulin is typically less than 10 pg/ml.
Applicable Applications for AREG elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AREG elisa kit	Principle of the assay: The Human Amphiregulin ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Amphiregulin in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Human Amphiregulin coated on a 96-well plate. Standards and samples are pipetted into the wells and Amphiregulin present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Amphiregulin antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Amphiregulin bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502199
NCBI GeneID	374
NCBI Accession #	NP_001648.1
NCBI GenBank Nucleotide #	NM_001657.3
UniProt Accession #	P15514; Q5U026
Molecular Weight	27,895 Da
NCBI Official Full Name	amphiregulin preproprotein
NCBI Official Synonym Full Names	amphiregulin
NCBI Official Symbol	AREG
NCBI Official Synonym Symbols	AR; SDGF; AREGB; CRDGF
NCBI Protein Information	amphiregulin; amphiregulin B; schwannoma-derived growth factor; colorectum cell-derived growth factor
UniProt Protein Name	Amphiregulin
UniProt Gene Name	AREG
UniProt Synonym Gene Names	SDGF; AR; CRDGF
UniProt Entry Name	AREG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.