

## Human Amphiregulin(AR) ELISA Kit | AREG elisa kit

Human Amphiregulin(AR) PicoKine ELISA Kit

CATALOG #  
**AAA45956**

REACTIVITY  
**Human**

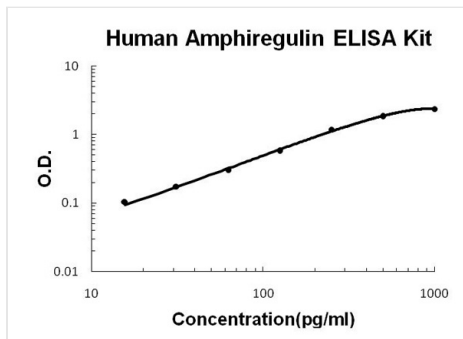
### PRODUCT SYNONYMS

Amphiregulin(AR); Human Amphiregulin(AR) PicoKine ELISA Kit; Amphiregulin; amphiregulin; A REG; AR; AREG; Colorectum cell derived growth factor; CRDGF; MGC13647; OTTHUMP00000219184; Schwannoma derived growth factor; SDGF; AREG elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                      |
| Specificity             | Natural and recombinant human Amphiregulin                                                                                 |
| Sequence Length         | 252                                                                                                                        |
| Samples                 | Cell culture supernates, serum, plasma (heparin, EDTA), saliva and human milk                                              |
| Assay Type              | Sandwich                                                                                                                   |
| Detection Range         | 15.6pg/ml-1000pg/ml                                                                                                        |
| Sensitivity             | < 10pg/ml                                                                                                                  |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.) |

### IMAGES



Standard Curve (Sample)

Human Amphiregulin(AR) PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

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| Related Product Information for AREG elisa kit | <p><b>Principle of the assay:</b> human Amphiregulin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Amphiregulin has been precoated onto 96-well plates. Standards(E.coli, S101-K198) 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 human Amphiregulin amount of sample captured in plate.</p> <p><b>Background:</b> 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> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 113754                                                                                                |
| NCBI GeneID                      | 374                                                                                                   |
| UniProt Accession #              | P15514; Q5U026                                                                                        |
| Molecular Weight                 | 27,895 Da                                                                                             |
| NCBI Official Full Name          | Amphiregulin                                                                                          |
| 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.

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Online datasheet: <https://stage.aaabiotech.com/areg-human-elisa-kits/amphiregulin-ar/45956>