





# Rat keratinocyte autocrine factor/Amphiregulin, KAF/AR ELISA Kit

<b>Product Code</b>	CSB-E07299r
Abbreviation	AREG
Target Name	amphiregulin
Uniprot No.	P24338
Alias	AR, CRDGF, MGC13647, SDGF, colorectum cell-derived growth factor schwannoma-derived growth factor
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
<b>Detection Range</b>	1.25 pg/mL-80 pg/mL
Sensitivity	0.31 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
<b>Detection Wavelength</b>	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	Areg
Tag Info	quantitative
<b>Protein Description</b>	Sandwich
Description	

The Rat Keratinocyte Autocrine Factor/Amphiregulin (KAF/AR) ELISA Kit is designed to measure Amphiregulin (AR) in rat serum, plasma, and tissue homogenates with exceptional accuracy and sensitivity.

With a detection range of 1.25 pg/mL-80 pg/mL and a sensitivity of 0.31 pg/mL, this quantitative assay can detect even the smallest amount of KAF/AR in your samples. The assay time is only 1-5 hours, and the required sample volume is just 50-100ul. The detection wavelength is 450 nm, ensuring reliable and precise results every time.

This kit is ideal for researchers investigating the role of KAF/AR in cancer?activates intracellular signaling, lung morphogenesis, breast bone tissue and oocyte maturation, and tissue integrity recovery after infection or measurement principle allows for accurate quantification of KAF/AR in your

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samples, making it a valuable tool for any cancer research project. With its quick assay time, low sample volume requirement, and precise results, this kit is a must-have for any researcher studying cancer.

#### **Target Details**

This protein is a member of the epidermal growth factor family. It is an autocrine growth factor as well as a mitogen for astrocytes, Schwann cells, and fibroblasts. It is related to epidermal growth factor (EGF) and transforming growth factor alpha (TGF-alpha). This protein interacts with the EGF/TGF-alpha receptor to promote the growth of normal epithelial cells and inhibits the growth of certain aggressive carcinoma cell lines. This encoded protein is associated with a psoriasis-like skin phenotype.

## **Product Precision**

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

# Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat KAF/AR in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	92
	Range %	87-98
1:2	Average %	95
	Range %	91-99
1:4	Average %	86
	Range %	80-92
1:8	Average %	96
	Range %	92-102

# Recovery

The recovery of rat KAF/AR spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	104	98-108
EDTA plasma (n=4)	97	92-106

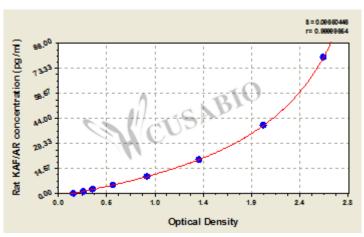
## **Typical**

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.









# pg/ml OD1 OD2 Average Corrected

80	2.538 2.616 2.577	2.413
40	1.939 2.059 1.999	1.835
20	1.364 1.386 1.375	1.211
10	0.882 0.870 0.876	0.712
5	0.549 0.541 0.545	0.381
2.5	0.341 0.356 0.349	0.185
1.25	0.253 0.258 0.256	0.092
0	0.168 0.160 0.164	?

**Msds** 

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