

# Product datasheet

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ARG43287 anti-AREG / Amphiregulin antibody

Package: 50 μg Store at: -20°C

## **Summary**

Product Description Rabbit Polyclonal antibody recognizes AREG / Amphiregulin

Tested Reactivity Ms, Rat

Tested Application IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name AREG / Amphiregulin

Species Mouse

Immunogen Recombinant protein corresponding to V100-K191 of Mouse AREG / Amphiregulin.

Conjugation Un-conjugated

Alternate Names Amphiregulin; AREGB; CRDGF; SDGF; AR; Colorectum cell-derived growth factor

## **Application Instructions**

Application table	Application	Dilution
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0).  * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat brain and Mouse brain	
Observed Size	~ 40 kDa	

## **Properties**

Form Liquid

**Purification** Affinity purification with immunogen.

Buffer 0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.

Preservative 0.05% Sodium azide

Stabilizer 4% Trehalose
Concentration 0.5 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

### Bioinformation

Gene Symbol AREG

Gene Full Name amphiregulin

Background The protein encoded by this gene 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). The protein interacts with the EGF/TGF-alpha receptor to promote the growth of normal epithelial cells, and it inhibits the growth of certain aggressive carcinoma cell lines. It also functions in mammary gland, oocyte and bone tissue development. This gene is associated with a psoriasis-like skin phenotype, and is also associated with other pathological disorders, including various types of cancers and inflammatory conditions.

[provided by RefSeq, Apr 2014]

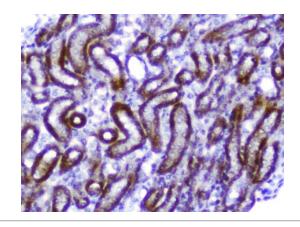
Function Ligand of the EGF receptor/EGFR. Autocrine growth factor as well as a mitogen for a broad range of

target cells including astrocytes, Schwann cells and fibroblasts. [UniProt]

Calculated Mw 28 kDa

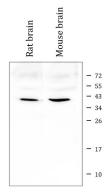
Cellular Localization Membrane; Single-pass membrane protein. [UniProt]

## **Images**



#### ARG43287 anti-AREG / Amphiregulin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse kidney tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43287 anti-AREG / Amphiregulin antibody at 1  $\mu g/ml$  dilution, overnight at 4°C.



#### ARG43287 anti-AREG / Amphiregulin antibody WB image

Western blot: 50  $\mu g$  of sample under reducing conditions. Rat brain and Mouse brain lysates stained with ARG43287 anti-AREG / Amphiregulin antibody at 0.5  $\mu g/ml$  dilution, overnight at 4°C.