For Research Use Only

# Amphiregulin Monoclonal antibody

Catalog Number:66433-1-Ig 7 Publications

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## Basic Information

Catalog Number:
66433-1-Ig

Size:
150ul , Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG8907

GenBank Accession Number:
BC009799

GeneID (NCBI):
374

UNIPROT ID:
P15514

Full Name:
amphiregulin

Calculated MW:
252 aa, 28 kDa

Observed MW:
50 kDa, 37 kDa

Purification Method:
Protein G purification

CloneNo.:
1A1G9

Recommended Dilutions:
WB: 1:1000-1:6000
IHC: 1:50-1:500

## Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, rat, pig

Cited Species:
human, mouse

***Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0***

Positive Controls:

WB : A549 cells, rat brain tissue, MCF-7 cells, pig brain tissue

IHC : human pancreas cancer tissue, human colon cancer tissue

## Background Information

Amphiregulin (AREG) is one of the ligands of the epidermal growth factor receptor (EGFR). AREG plays a central role in mammary gland development and branching morphogenesis in organs and is expressed both in physiological and in cancerous tissues. The AREG protein is synthesized as a 252-amino acid transmembrane precursor, pro-AREG. At the plasma membrane, pro-AREG is subjected to sequential proteolytic cleavages within its ectodomain and is then released as the soluble AREG protein. Depending on the cell type and microenvironment, AREG can be produced in multiple cellular and mature forms using alternative pro-AREG cleavage sites and glycosylation motifs. Post-translastional modfications of 50-kDa pro-AREG produces a major soluble 43-kDa form, 28-, 26-, 16-kDa membrane anchored forms, and soluble 21-, 19-, and 9-kDa forms (PMID: 9642297).

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Jie Liu | 30745837 | Int J Biol Sci | |
| Yingjian Huang | 34358528 | J Invest Dermatol | WB |
| Xiangyi Ke | 39667932 | Dev Cell | IF |

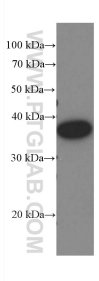
## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

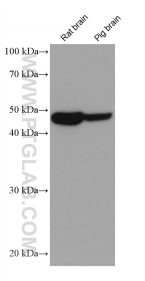
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

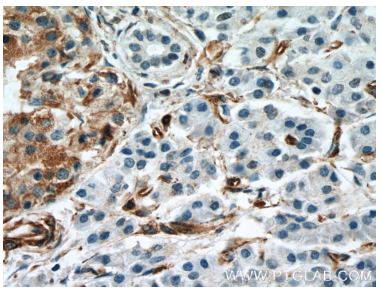
## Selected Validation Data



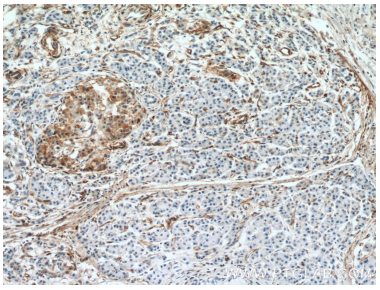

A549 cells were subjected to SDS PAGE followed by western blot with 66433-1-Ig (Amphiregulin antibody at dilution of 1:3000 incubated at room temperature for 1.5 hours.




Various lysates were subjected to SDS PAGE followed by western blot with 66433-1-Ig (Amphiregulin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66433-1-Ig (Amphiregulin antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66433-1-Ig (Amphiregulin antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).