

# Amphiregulin Monoclonal antibody, PBS Only

Catalog Number: 66433-1-PBS

## Basic Information

Catalog Number: 66433-1-PBS	GenBank Accession Number: BC009799	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 374	CloneNo.: 1A1G9
Source: Mouse	UNIPROT ID: P15514	
Isotype: IgG1	Full Name: amphiregulin	
Immunogen Catalog Number: AG8907	Calculated MW: 252 aa, 28 kDa	
	Observed MW: 50 kDa, 37 kDa	

## Applications

Tested Applications:  
WB, Indirect ELISA, IHC

Species Specificity:  
human, rat, pig

## Background Information

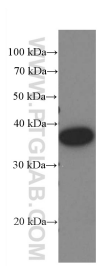
Amphiregulin (AREG) is one of the ligands of the epidermal growth factor receptor (EGFR). AREG plays a central role in mammary gland development and branching morphogenesis in organs and is expressed both in physiological and in cancerous tissues. The AREG protein is synthesized as a 252-amino acid transmembrane 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-translational modifications 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).

## Storage

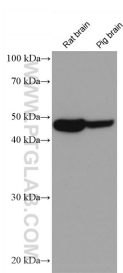
Storage:  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:  
PBS Only

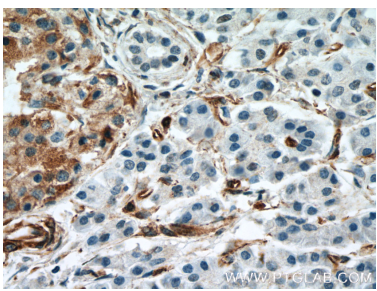
## Selected Validation Data



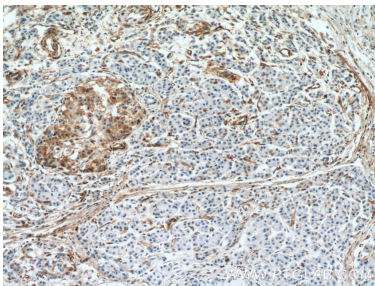
A549 cells were subjected to SDS PAGE followed by western blot with 66433-1-Ig (Amphiregulin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66433-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66433-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66433-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66433-1-PBS in a different storage buffer formulation.