

For Research Use Only

Amphiregulin Monoclonal antibody

Catalog Number: 66433-1-Ig **7 Publications**



Basic Information

Catalog Number:	66433-1-Ig	GenBank Accession Number:	BC009799	Purification Method:	Protein G purification
Size:	150ul , Concentration: 1500 ug/ml by Nanodrop;	GeneID (NCBI):	374	CloneNo.:	1A1G9
Source:	Mouse	UNIPROT ID:	P15514	Recommended Dilutions:	WB 1:1000-1:6000 IHC 1:50-1:500
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, IHC, ELISA	Positive Controls:	
Cited Applications:	WB, IHC, IF	WB :	A549 cells, rat brain tissue, MCF-7 cells, pig brain tissue
Species Specificity:	human, rat, pig	IHC :	human pancreas cancer tissue, human colon cancer tissue
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			

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).

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

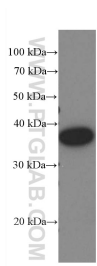
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

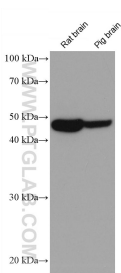
For technical support and original validation data for this product please contact:
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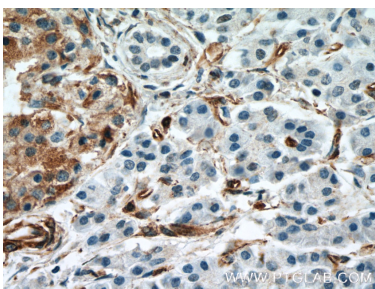
Selected Validation Data



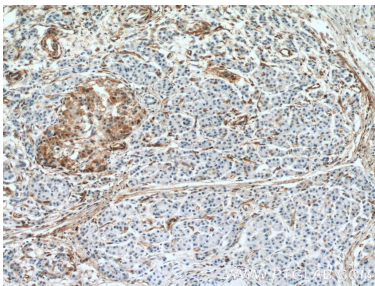
A549 cells were subjected to SDS PAGE followed by western blot with 66433-1-Ig (Amphiregulin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).