

For Research Use Only

Amphiregulin Monoclonal antibody, PBS Only



Catalog Number: 66433-1-PBS

Basic Information

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|--|--|---|
| 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.

Storage Buffer:
PBS Only

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

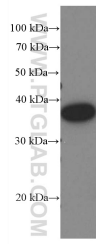
T: 4006900926

E: Proteintech-CN@ptglab.com

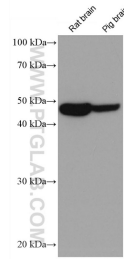
W: ptgcn.com

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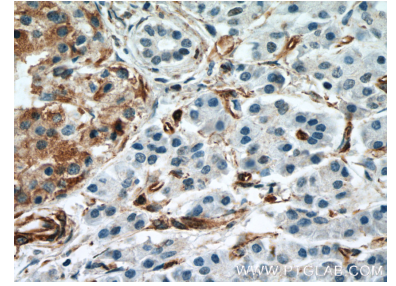
Selected Validation Data



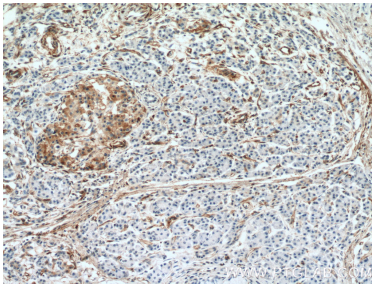
A549 cells were subjected to SDS PAGE followed by western blot with 66433-1-Ig (Amphiregulin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66433-1-PBS in a different storage buffer formulation.



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.