bs-3847R **[Primary Antibody]**

Amphiregulin Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 374 **SWISS:** P15514

Target: Amphiregulin

Immunogen: KLH conjugated synthetic peptide derived from human Amphiregulin: 185-252/252.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Amphiregulin expression is induced by phorbol ester, estrogen, androgen, and other EGFR ligands. In vitro, amphiregulin functions as an autocrine growth stimulator to drive proliferation of colon carcinoma cells, normal and oncogene-transformed mammary epithelial cells, cervical carcinoma cells, prostate cancer cells, and keratinocytes. Amphiregulin is important in the development of human placenta and murine mammary gland. It is reportedly overexpressed in human cancers of breast, colon, stomach and pancreas.

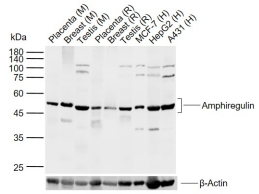
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Sheep, Cow, Dog, Horse)

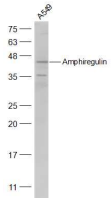
Predicted MW.: 16 kDa

Subcellular Location: Cell membrane

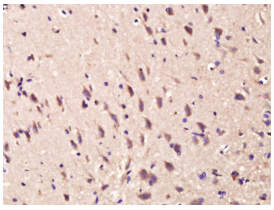
VALIDATION IMAGES



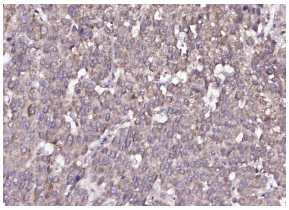
Sample: Lane 1: Mouse Placenta tissue lysates Lane 2: Mouse Breast tissue lysates Lane 3: Mouse Testis tissue lysates Lane 4: Rat Placenta tissue lysates Lane 5: Rat Breast tissue lysates Lane 6: Rat Testis tissue lysates Lane 7: Human MCF-7 cell lysates Lane 8: Human HepG2 cell lysates Lane 9: Human A431 cell lysates Primary: Anti- Amphiregulin (bs-3847R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 16 kDa Observed band size: 47 kDa



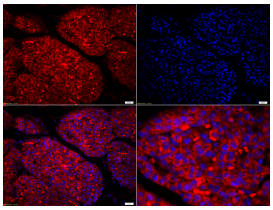
Sample: A549(Human) Cell Lysate at 30 ug Primary: Anti-Amphiregulin (bs-3847R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 26 kD Observed band size: 41 kD



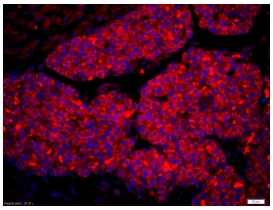
Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Amphiregulin) Polyclonal Antibody, Unconjugated (bs-3847R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking



Tissue/cell: mouse embryo tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at



Tissue/cell: mouse fetal liver;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at

buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Amphiregulin) Polyclonal Antibody, Unconjugated (bs-3847R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

37°C for 20 min; Incubation: Anti-Amphiregulin Polyclonal Antibody, Unconjugated(bs-3847R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

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SELECTED CITATIONS

- **[IF=8]** Si-Ting Chen. et al. The activation of cGAS-STING pathway causes abnormal uterine receptivity in aged mice. AGING CELL. 2024 Aug;:e14303 IF,WB ;Mouse. 39113346
- **[IF=6.684]** Huihua Kai. et al. LncRNA NORAD Promotes Vascular Endothelial Cell Injury and Atherosclerosis Through Suppressing VEGF Gene Transcription via Enhancing H3K9 Deacetylation by Recruiting HDAC6. Front Cell Dev Biol. 2021; 9: 701628 WB ;Human. 34307380
- **[IF=6.823]** Bonnie Douglas. et al. Transgenic expression of a T cell epitope in Strongyloides ratti reveals that helminth-specific CD4+ T cells constitute both Th2 and Treg populations. Plos Pathog. 2021 Jul;17(7):e1009709 IF ;Rat. 34237106
- **[IF=4.6]** c "Evaluation of estrogenic potency of a standardized hops extract on mammary gland biology and on MNU-induced mammary tumor growth in rats." The Journal of Steroid Biochemistry and Molecular Biology (2017). IHC ;="Rat". 28964928
- **[IF=5.192]** Man She. et al. AREG is involved in scleral remodeling in form-deprivation myopia via the ERK1/2-MMP-2 pathway. FASEB J. 2022 May;36(5):e22289 IF ;Pig. 35436023