DATASHEET

Amphiregulin Rabbit Polyclonal Antibody

CAT. NO. ARA5821

KEY FEATURES

Target	Amphiregulin	**Source/Host**	Rabbit
Reactivity	Human, Mouse	**Clonality**	Polyclonal
Applications	WB,IHC,IF/ICC,FC,IP,ELISA	**Isotype**	IgG
Storage	at -20°C		

BACKGROUND

Amphiregulin (AREG) is a ligand of the epidermal growth factor receptor (EGFR). It contributes to mammary gland development and branching morphogenesis and is expressed in both physiological and cancerous tissues. AREG is synthesized as a 252-amino-acid transmembrane precursor that undergoes proteolytic cleavage to release soluble forms.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:1000 - 1:4000
IHC	1:50 - 1:500
IF/ICC	1:50 - 1:500
FC	0.20 µg per 10^6 cells in a 100 µL suspension
IP	0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
ELISA	Assay-dependent

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Rabbit polyclonal antibody to Amphiregulin for WB, IHC, IF/ICC, FC, IP and ELISA.
Antibody Type	Primary antibody, Polyclonal
Immunogen	Recombinant human AREG protein, E. coli-derived, GST-tagged, aa 25-252. Sequence: AGLDLNDTYSGKREPFSGDHSADGFEVTSRSEMSSGSEISPVSEMPSSSE PSSGADYDYSEEYDNEPQIPGYIVDDSVRVEQVVKPPQNKTESENTSDKP KRKKKGGKNGKNRRNRKKKNPCNAEFQNFCIHGECKYIEHLEAVTCKCQQ EYFGERCGEKSMKTHSMIDSSLSKIALAAIAAFMSAVILTAVAVITVQLR RQYVRKYEGEAEERKKLRQENGNVHAIA
Molecular Weight	Predicted: 28 kDa; Observed: 43-50 kDa
Purification	Antigen affinity purification
Isotype	IgG
Form/Buffer	Liquid in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Alternative Names	AREG, AR, AREGB, Colorectum cell-derived growth factor, CRDGF
Gene Symbol	AREG
Entrez Gene	374
SwissProt	P15514

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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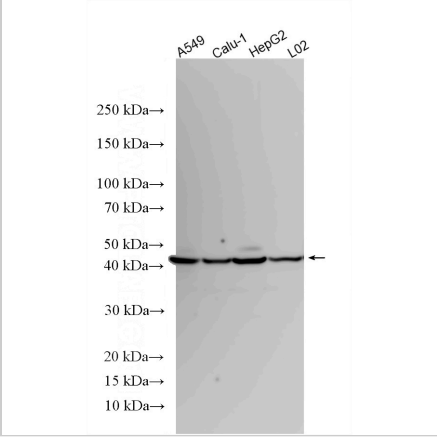
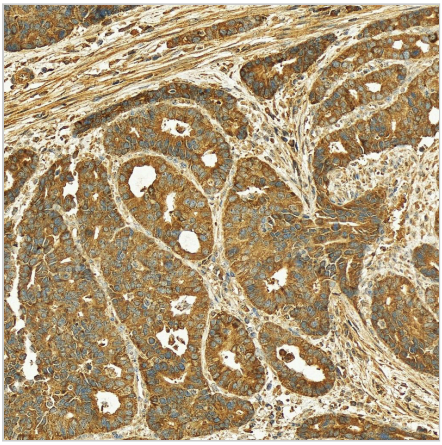
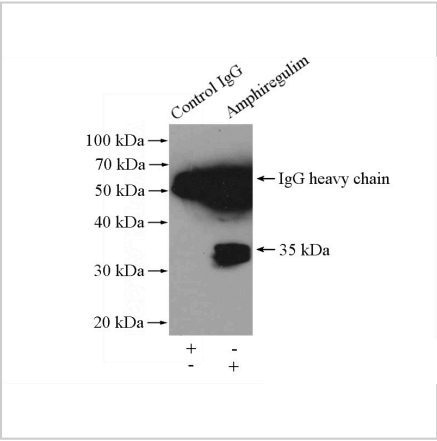
DATA



Various lysates were subjected to SDS-PAGE followed by western blot using Amphiregulin Rabbit Polyclonal Antibody at 1:2000 dilution and incubated at room temperature for 1.5 hours. Samples shown: A549, Calu-1, HepG2 and L02 cell lysates.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue using Amphiregulin Rabbit Polyclonal Antibody at 1:200 dilution under a 20× objective. Heat-mediated antigen retrieval was performed with Tris-EDTA buffer, pH 9.0.



Immunoprecipitation of Amphiregulin from 3600 µg HepG2 cell lysate using Amphiregulin Rabbit Polyclonal Antibody (IP: 4 µg; detection: 1:2000).

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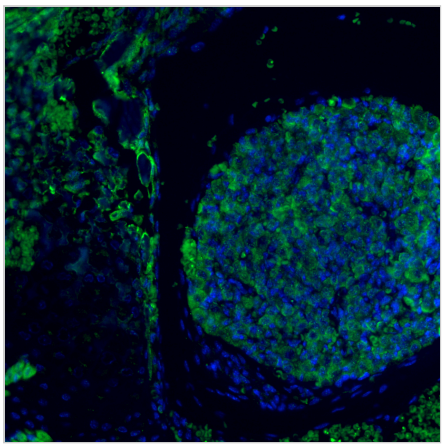
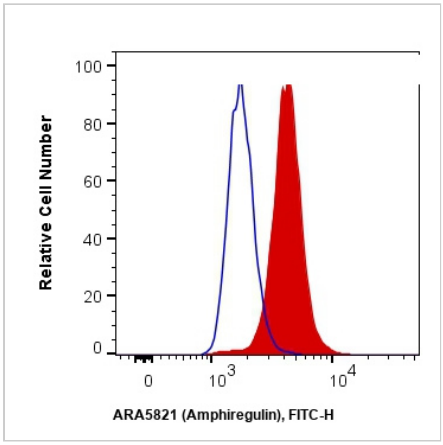


Immunofluorescence analysis of 4% PFA-fixed, paraffin-embedded mouse embryo tissue using Amphiregulin Rabbit Polyclonal Antibody at 1:200 dilution and AREX® Flour 488-goat anti-rabbit recombinant secondary antibody. Heat-mediated antigen retrieval was performed with Tris-EDTA buffer, pH 9.0.



Flow cytometric analysis of 1×10^6 HeLa cells intracellularly stained with 0.2 µg Amphiregulin Rabbit Polyclonal Antibody and AREX® Flour 488-goat anti-rabbit recombinant secondary antibody at 1:1000 dilution (red), or 0.2 µg control antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com