10320 Camino Santa Fe, Suite G
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# EREG Antibody (C-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AW5474**

## Specification

### EREG Antibody (C-term) - Product Information

| | |
|---|---|
| Application | **WB, FC, IHC-P,E** |
| Primary Accession | O14944 |
| Reactivity | **Human** |
| Predicted | **Mouse** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **H=19;M=18 KDa** |
| Isotype | **Rabbit IgG** |
| Antigen Source | **HUMAN** |

### EREG Antibody (C-term) - Additional Information

**Gene ID** 2069

**Antigen Region**
137-165

**Other Names**
Proepiregulin, Epiregulin, EPR, EREG

**Dilution**
WB~~1:2000
FC~~1:25
IHC-P~~1:25

**Target/Specificity**
This EREG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 137-165 amino acids from the C-terminal region of human EREG.

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
EREG Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### EREG Antibody (C-term) - Protein Information

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**Name** EREG

**Function**
Ligand of the EGF receptor/EGFR and ERBB4. Stimulates EGFR and ERBB4 tyrosine phosphorylation (PubMed:<a href="http://www.uniprot.org/citations/9419975" target="_blank">9419975</a>). Contributes to inflammation, wound healing, tissue repair, and oocyte maturation by regulating angiogenesis and vascular remodeling and by stimulating cell proliferation (PubMed:<a href="http://www.uniprot.org/citations/24631357" target="_blank">24631357</a>).

**Cellular Location**
[Epiregulin]: Secreted, extracellular space

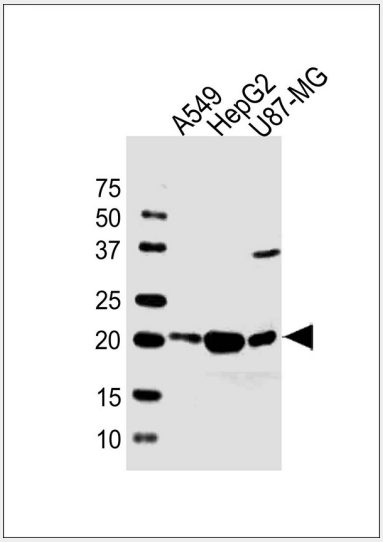
**Tissue Location**
In normal adults, expressed predominantly in the placenta and peripheral blood leukocytes. High levels were detected in carcinomas of the bladder, lung, kidney and colon

## EREG Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## EREG Antibody (C-term) - Images




All lanes : Anti-EREG Antibody (C-term) at 1:1000 dilution Lane 1: A549 whole cell lysates Lane 2: HepG2 whole cell lysates Lane 3: U87-MG whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 19 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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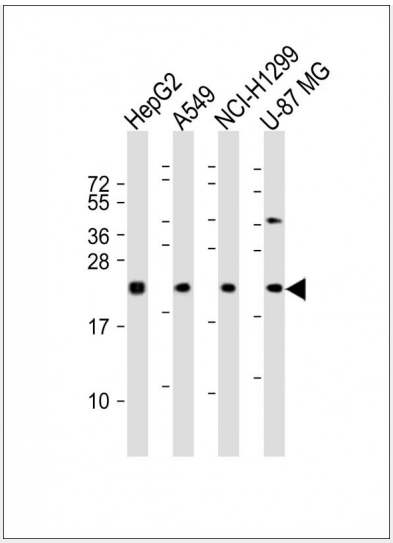
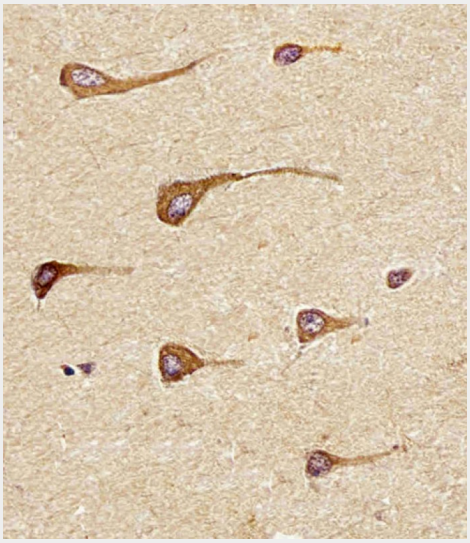



All lanes : Anti-EREG Antibody (C-term) at 1:2000 dilution Lane 1: HepG2 whole cell lysates Lane 2: A549 whole cell lysates Lane 3: NCI-H1299 whole cell lysates Lane 4: U-87 MG whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 19 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AW5474 staining EREG in Human brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

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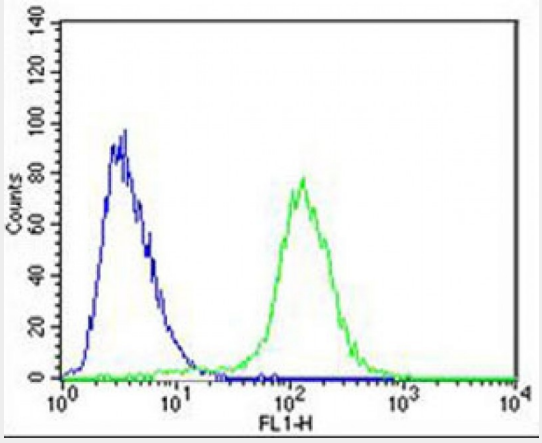
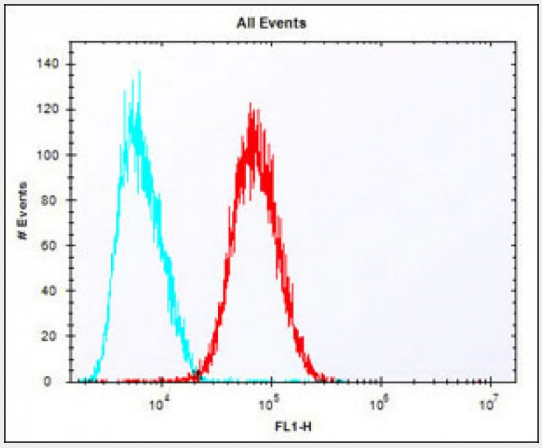



Overlay histogram showing Hela cells stained with AW5474 (green line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AW5474, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (1583138) at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.




Overlay histogram showing HepG2 cells stained with AW5474 (red line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AW5474, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (1583138) at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

**EREG Antibody (C-term) - Background**

EREG is a member of the epidermal growth factor family. EREG can function as a ligand of EGFR (epidermal growth factor receptor), as well as a ligand of most members of the ERBB (v-erb-b2 oncogene homolog) family of tyrosine-kinase receptors.

**EREG Antibody (C-term) - References**

Ben-Ami, I., et al. Hum. Reprod. 24(1):176-184(2009)
Cho, M.C., et al. Biochem. Biophys. Res. Commun. 377(3):832-837(2008)
Lasky-Su, J., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (8), 1345-1354 (2008)