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Tel: 858.875.1900 Fax: 858.875.1999

Anti-EREG Picoband Antibody

Catalog # ABO12550

Specification

Anti-EREG Picoband Antibody - Product Information

Application	**WB**
Primary Accession	O14944
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Proepiregulin(EREG) detection. Tested with WB in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-EREG Picoband Antibody - Additional Information

Gene ID 2069

Other Names
Proepiregulin, Epiregulin, EPR, EREG

Calculated MW
19044 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Epiregulin: Secreted, extracellular space .

Tissue Specificity
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. .

Protein Name
Proepiregulin

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E. coli-derived human EREG recombinant protein (Position: V60-L108). Human EREG shares 85.7% and 87.8% amino acid (aa) sequence identity with mouse and rat EREG, respectively.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-EREG Picoband Antibody - Protein Information

Name EREG

Function
Ligand of the EGF receptor/EGFR and ERBB4. Stimulates EGFR and ERBB4 tyrosine phosphorylation (PubMed:9419975). Contributes to inflammation, wound healing, tissue repair, and oocyte maturation by regulating angiogenesis and vascular remodeling and by stimulating cell proliferation (PubMed:24631357).

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

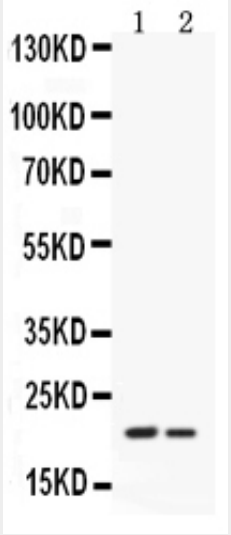
Anti-EREG Picoband Antibody - Protocols

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

Anti-EREG Picoband Antibody - Images

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Western blot analysis of EREG expression in human placenta extract (lane 1) and HEPG2 whole cell lysates (lane 2). EREG at 20KD was detected using rabbit anti- EREG Antigen Affinity purified polyclonal antibody (Catalog # ABO12550) at0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-EREG Picoband Antibody - Background

EpiregulinÂ (EPR) is aÂ proteinÂ that in humans is encoded by theÂ EREGÂ gene. It is mapped to 4q13.3. This gene encodes a secreted peptide hormone and member of the epidermal growth factor (EGF) family of proteins. The encoded protein is a ligand of the epidermal growth factor receptor (EGFR) and the structurally related erb-b2 receptor tyrosine kinase 4 (ERBB4). Also, it may be involved in a wide range of biological processes including inflammation, wound healing, oocyte maturation, and cell proliferation. Additionally, the encoded protein may promote the progression of cancers of various human tissues.