

For Research Use Only

EGF Polyclonal antibody

Catalog Number: 27141-1-AP

6 Publications



Basic Information

Catalog Number:

27141-1-AP

Size:

900 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25997

GenBank Accession Number:

BC093731

GeneID (NCBI):

1950

UNIPROT ID:

P01133

Full Name:

epidermal growth factor (beta-urogastrone)

Calculated MW:

1207 aa, 134 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC 1:50-1:500

Applications

Tested Applications:

IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human

Cited Species:

human

Positive Controls:

IHC : human skin tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Epidermal Growth Factor (EGF) is a type of mitogenic factor that stimulates the proliferation of various cells, including epithelial cells and fibroblasts. It is a small peptide composed of 53 amino acids with a molecular weight of approximately 6,000 Daltons. EGF contains three disulfide bonds, which contribute to its stability under acidic and high-temperature conditions. Human EGF is synthesized as transmembrane precursor proteins (1207 amino acids), which are proteolytically cleaved to generate the 54 amino acid mature EGF. EGF plays a crucial role in regulating cell growth, proliferation, and differentiation. When EGF binds to its receptor (EGFR), it activates intracellular signaling pathways that lead to DNA synthesis and cell proliferation. EGF is naturally present in various tissues and body fluids, including saliva, urine, and milk. It is primarily synthesized in the submandibular glands and duodenum.

Notable Publications

Author	Pubmed ID	Journal	Application
Ruichuang Yang	34824590	Evid Based Complement Alternat Med	WB
Enjie Li	35502895	Elife	WB,IHC
Zu-Jun Que	32240782	J Ethnopharmacol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

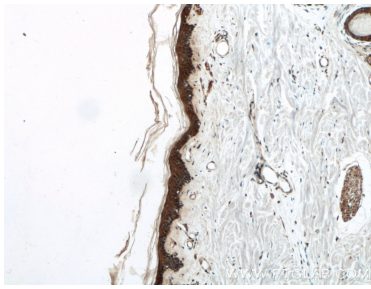
T: 4006900926

E: Proteintech-CN@ptglab.com

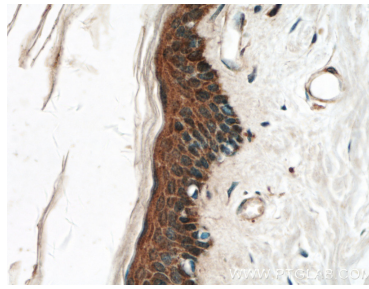
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human skin tissue slide using 27141-1-AP (EGF antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skin tissue slide using 27141-1-AP (EGF antibody) at dilution of 1:200 (under 40x lens).