

For Research Use Only

# EGF Polyclonal antibody

Catalog Number: 27141-1-AP

6 Publications



## Basic Information

<b>Catalog Number:</b> 27141-1-AP	<b>GenBank Accession Number:</b> BC093731	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 900 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1950	<b>Recommended Dilutions:</b> IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P01133	
<b>Isotype:</b> IgG	<b>Full Name:</b> epidermal growth factor (beta-urogastrone)	
<b>Immunogen Catalog Number:</b> AG25997	<b>Calculated MW:</b> 1207 aa, 134 kDa	

## Applications

<b>Tested Applications:</b> IHC, ELISA	<b>Positive Controls:</b> IHC : human skin tissue,
<b>Cited Applications:</b> WB, IHC	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

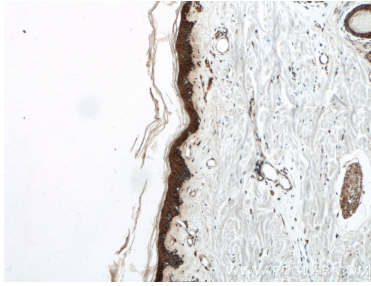
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

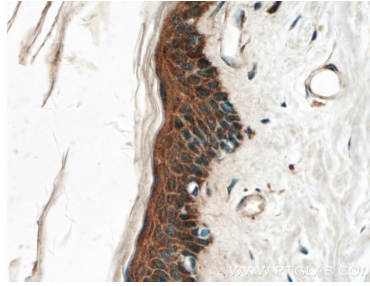
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



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).