

For Research Use Only

# EGFR (C-terminal) Polyclonal antibody

Catalog Number: 51071-2-AP

27 Publications



## Basic Information

### Catalog Number:

51071-2-AP

### Size:

150ul, Concentration: 4000 ug/ml by Nanodrop and 667 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

BC094761

### GeneID (NCBI):

1956

### UNIPROT ID:

P00533

### Full Name:

epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)

### Calculated MW:

1210 aa, 134 kDa

### Observed MW:

170 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, CoIP

### Species Specificity:

human

### Cited Species:

human, mouse, pig

### Positive Controls:

WB: A431 cells, HeLa cells, L02 cells

IP: A431 cells,

IF/ICC: A431 cells,

## Background Information

EGFR, also named as ERBB1, is a cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. The gene resides on chromosome 7p12, encoding a 170 kDa membrane-associated glycoprotein. Recent studies have shown EGFR plays a critical role in cancer development and progression, including cell proliferation, apoptosis, angiogenesis, and metastatic spread. Mutations in this gene are associated with lung cancer. The antibody is specific to isoform1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Samusi Adediran	36230550	Cancers (Basel)	WB
Xiaojin Liu	36230833	Cancers (Basel)	WB
Minglu Liu	36467051	Front Pharmacol	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

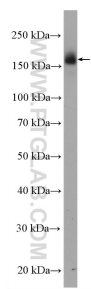
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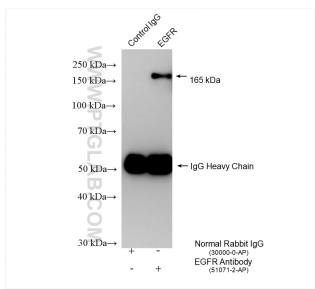
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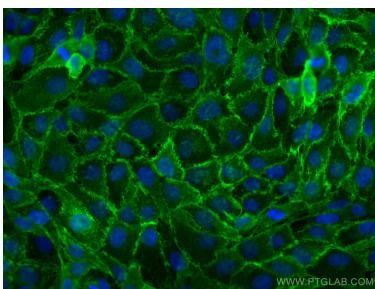
Selected Validation Data



A431 cells were subjected to SDS PAGE followed by western blot with 51071-2-AP (EGFR (C-terminal) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-EGFR (C-terminal) (IP:51071-2-AP, 4ug; Detection:51071-2-AP 1:30000) with A431 cells lysate 1200 ug.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using EGFR (C-terminal) antibody (51071-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).