

For Research Use Only

# EGFR Monoclonal antibody

Catalog Number: 66455-1-Ig

Featured Product

5 Publications



## Basic Information

<b>Catalog Number:</b> 66455-1-Ig	<b>GenBank Accession Number:</b> BC094761	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150UL, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1956	<b>CloneNo.:</b> 2A2H10
<b>Source:</b> Mouse	<b>Full Name:</b> epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)	<b>Recommended Dilutions:</b> WB 1:10000-1:20000 IHC 1:1000-1:4000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 1210 aa, 134 kDa	
<b>Immunogen Catalog Number:</b> AG24947	<b>Observed MW:</b> 145-165 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human

### Cited Species:

human, mouse

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

### Positive Controls:

WB: HepG2 cells, A549 cells, SKOV-3 cells, PC-3 cells, A431 cells, HeLa cells, LNCaP cells, PC-3 cells

IHC: human tonsillitis tissue, human breast cancer tissue, human cervical cancer tissue, human colon cancer tissue, human gliomas tissue, human lung cancer tissue, human skin cancer tissue

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Huilan Li	33076176	Talanta	WB,IF
Qiong-Qiong Xing	31520916	Biomed Pharmacother	WB
Yipu Fan	30587839	Cancers (Basel)	WB,IF,IHC

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

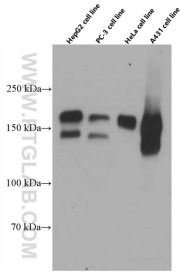
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

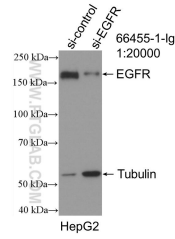
E: proteintech@ptglab.com  
W: ptglab.com

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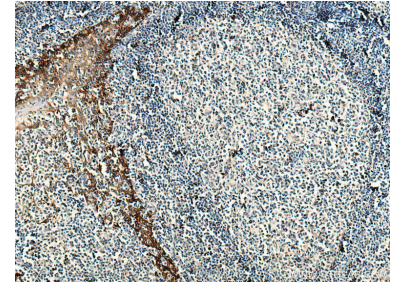
## Selected Validation Data



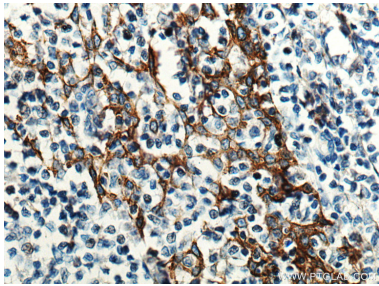
Various lysates were subjected to SDS PAGE followed by western blot with 66455-1-Ig (EGFR antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



WB result of EGFR antibody (66455-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EGFR transfected HepG2 cells.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66455-1-Ig (EGFR antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66455-1-Ig (EGFR antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).