

For Research Use Only

EGFR Recombinant antibody

Catalog Number: 83806-1-RR



Basic Information

Catalog Number: 83806-1-RR	GenBank Accession Number: NM_005228	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 1956	CloneNo.: 240603F10
Source: Rabbit	UNIPROT ID: P00533	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: epidermal growth factor receptor (erythroblastic leukemia viral (v-erb- b) oncogene homolog, avian)	
	Calculated MW: 134 kDa	
	Observed MW: 145-165 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : A549 cells, HeLa cells IHC : human placenta tissue, IF/ICC : A431 cells,
Species Specificity: human	
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

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.

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:

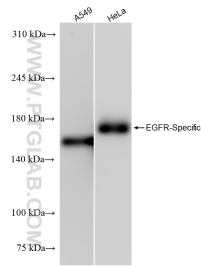
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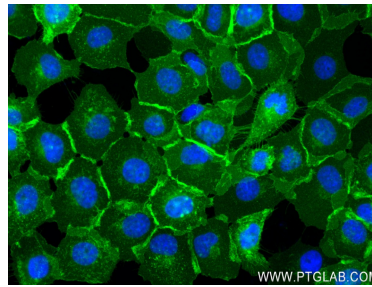
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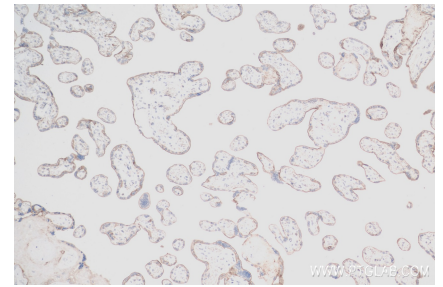
Selected Validation Data



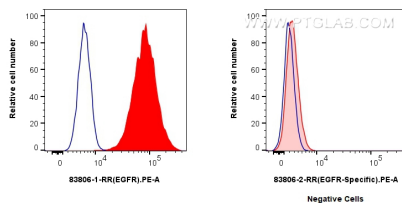
Various lysates were subjected to SDS PAGE followed by western blot with 83806-1-RR (EGFR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



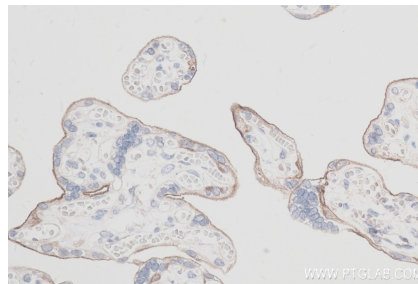
Immunofluorescent analysis of (4% PFA) fixed A431 cells using EGFR-Specific antibody (83806-1-RR, Clone: 240603F10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83806-1-RR (EGFR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 A431 cells (left) or Jurkat cells (right) were intracellularly stained with 0.4 ug EGFR Recombinant antibody (83806-1-RR, Clone: 240603F10) and PE-Conjugated Goat Anti-Rabbit IgG(H+L) (red), or 0.4 ug Isotype Control (blue). Cells were fixed with 4% PFA.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83806-1-RR (EGFR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).