

Anti-EGFR Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

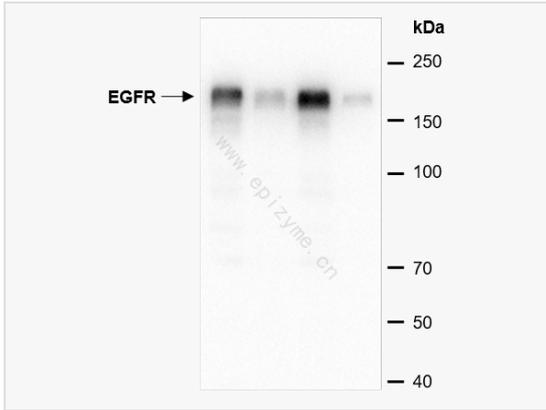
Catalog # R012146

Product Information

Application	IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA, WB
Reactivity	Mouse, Rat, Human
Dilution	WB 1:10,000; IHC-P 1:200; IF 1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	88L43L42
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human EGFR
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-EGFR Rabbit mAb [88L43L42] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	EGFR, ERBB, ERBB1, HER1, Epidermal growth factor receptor, Proto-oncogene c-ErbB-1, Receptor tyrosine-protein kinase erbB-1.
Calculated MW	Calculated MW: 135 kDa; Observed MW: 180 kDa
Uniprot ID	P00533
Gene ID	1956
Background	EGFR is a receptor tyrosine kinase. Receptor for epidermal growth factor (EGF) and related growth factors including TGF- α , amphiregulin, betacellulin, heparin-binding EGF-like growth factor, GP30 and vaccinia virus growth factor. Is involved in the control of cell growth and differentiation. . A single-pass transmembrane tyrosine kinase. Ligand binding to this receptor results in receptor dimerization, autophosphorylation (in trans), activation of various downstream signaling molecules and lysosomal degradation.



Western Blot - Anti-EGFR Rabbit mAb [88L43L42]

All lanes: R012146 at 1:10,000 dilution

Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates

Lane 3: T24 (human bladder cancer epithelial cell) whole cell lysates

Lane 4: SCC-9 (human tongue squamous carcinoma epithelial cell) whole cell lysates

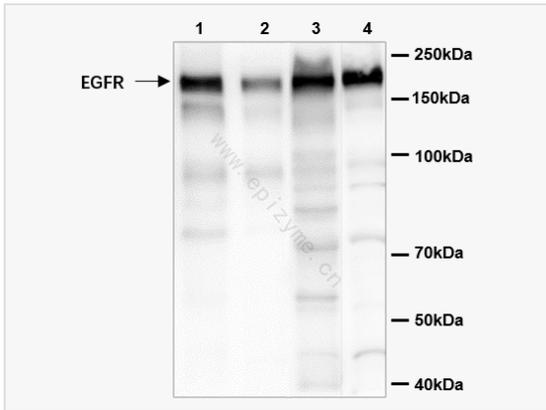
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 135 kDa

Observed band size: 180 kDa

Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-EGFR Rabbit mAb [88L43L42]

All lanes: R012146 at 1:1,000 dilution

Lane 1: SCC-9 (human tongue squamous carcinoma epithelial cell) whole cell lysates

Lane 2: U2OS (human osteosarcoma epithelial cell) whole cell lysates

Lane 3: Rat ovary whole tissue lysates

Lane 4: Balb/c mouse ovary whole tissue lysates

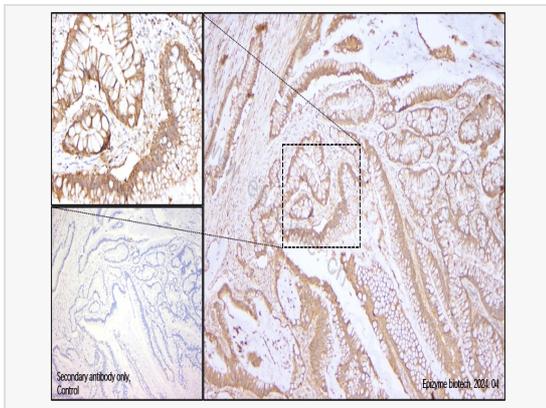
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 135 kDa

Observed band size: 180 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-EGFR Rabbit mAb [88L43L42]

Sample: Paraformaldehyde-fixed, paraffin embedded human colorectal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R012146 at 1:200 dilution

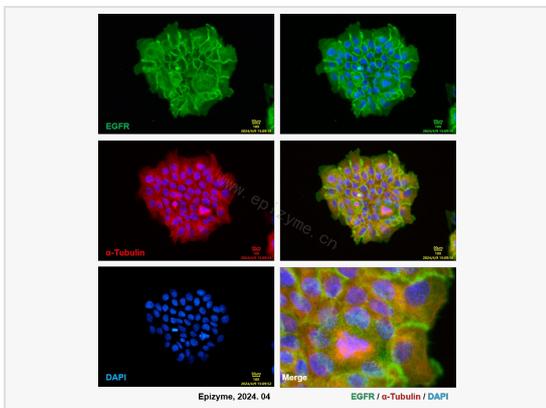
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-EGFR Rabbit mAb [88L43L42]

Sample: A431 cells

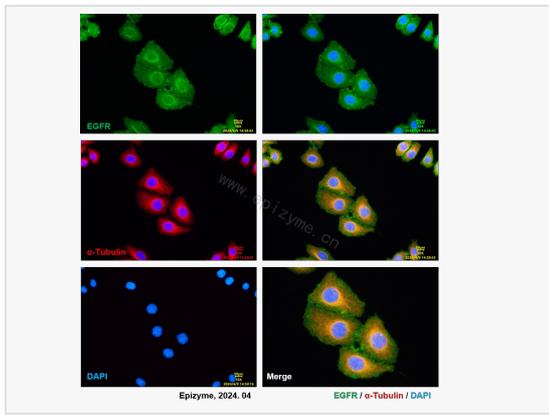
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R012146 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and

Goat anti-Mouse (CY3) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunofluorescence - Anti-EGFR Rabbit mAb [88L43L42]

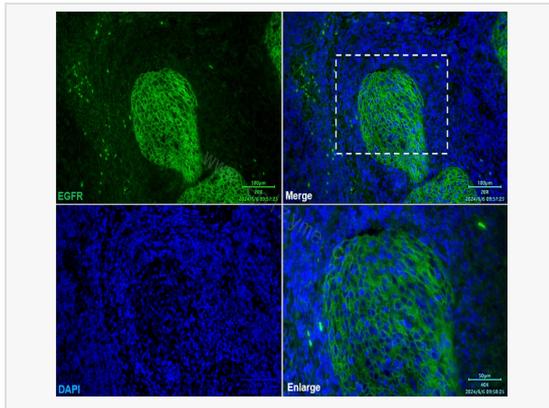
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R012146 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (CY3) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunofluorescence - Anti-EGFR Rabbit mAb [88L43L42]

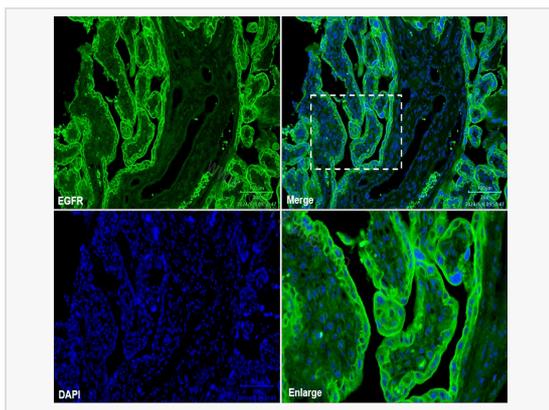
Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R012146 at 1:100 dilution

Secondary antibody: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green)

Nuclei were stained with DAPI (shown in blue).



Immunofluorescence - Anti-EGFR Rabbit mAb [88L43L42]

Sample: Paraformaldehyde-fixed, paraffin embedded placenta tissue

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R012146 at 1:100 dilution

Secondary antibody: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green)

Nuclei were stained with DAPI (shown in blue).