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## EGFR Rabbit pAb

Catalog Number: bs-0165R

Target Protein: EGFR

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1µg/Test)

Reactivity: Human, Rat (predicted:Mouse, Pig, Dog)

Predicted MW: 130 kDa

Subcellular: Secreted ,Cell membrane ,Cytoplasm ,Nucleus

Locations:

Entrez Gene: 1956

Swiss Prot: P00533

Source: KLH conjugated synthetic peptide derived from human EGFR: 951-1050/1210.

Purification: affinity purified by Protein A

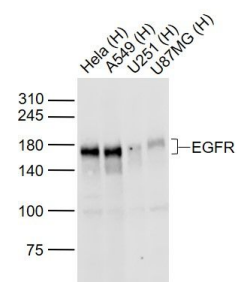
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

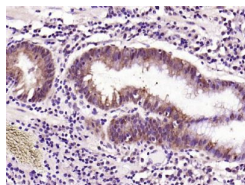
**Background:** The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer. Multiple alternatively spliced transcript variants that encode different protein isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

### VALIDATION IMAGES

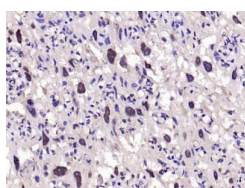
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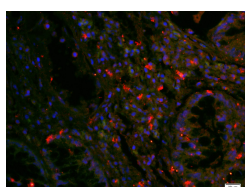
Sample: Lane 1: HeLa (Human) Cell Lysate at 30 ug Lane 2: A549 (Human) Cell Lysate at 30 ug Lane 3: U251 (Human) Cell Lysate at 30 ug Lane 4: U87MG (Human) Cell Lysate at 30 ug Primary: Anti-EGFR (bs-34018R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 170 kD Observed band size: 170 kD



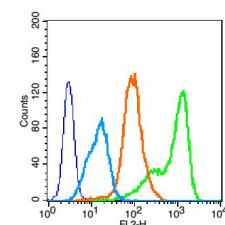
Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (EGFR) Polyclonal Antibody, Unconjugated (bs-0165R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



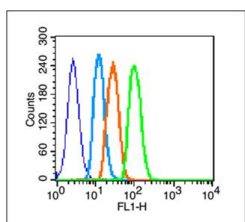
Paraformaldehyde-fixed, paraffin embedded (rat placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (EGFR) Polyclonal Antibody, Unconjugated (bs-0165R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: human rectal carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-EGFR Polyclonal Antibody, Unconjugated (bs-0165R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated (bs-0295G-Cy3) used at 1:200 dilution for 40 minutes at 37°C. DAPI (5ug/ml, blue, C-0033) was used to stain the cell nuclei



Blank control: HUVEC cells (blue). Primary Antibody: Rabbit Anti-EGFR antibody (bs-0165R), Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG (orange), used under the same conditions; Secondary Antibody: Goat anti-rabbit IgG-PE (white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA. Protocol The cells were fixed with 2% paraformaldehyde (10 min), then permeabilized with 90% ice-cold methanol for 30 min on ice. Primary antibody (bs-0165R, 1μg / 1x10<sup>6</sup> cells) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.



Blank control (blue line): A431 (blue). Primary Antibody (green line): Rabbit Anti-EGFR antibody (bs-0165R) Dilution: 3μg / 10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC Dilution: 1μg / test. Protocol The cells were fixed with 2% paraformaldehyde (10 min), then permeabilized with 90% ice-cold methanol for 30 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2% BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=8.1] Huang Tian. et al. MAL2 reprograms lipid metabolism in intrahepatic cholangiocarcinoma via EGFR/SREBP-1 pathway based on single-cell RNA sequencing. CELL DEATH DIS. 2024 Jun;15(6):1-18 FCM, CoIP, IF ; Human . 38866777

[IF=6.8] Bingjie Ge. et al. Integrated network toxicology, molecular docking, and in vivo experiments to elucidate molecular mechanism of aflatoxin B1 hepatotoxicity. ECOTOX ENVIRON SAFE. 2024 Apr;275:116278 WB ; Mouse . 38564860

[IF=6.576] Rong Li. et al. Integrated Analysis Reveals the Targets and Mechanisms in Immunosuppressive Effect of Mesalazine on

Ulcerative Colitis. FRONT NUTR. 2022; 9: 867692 IHC,IF ; Mouse . 35662946

[IF=6.291] Peng Zheng. et al. Alleviative effect of melatonin on the decrease of uterine receptivity caused by blood ammonia through ROS/NF-κB pathway in dairy cow. Ecotox Environ Safe. 2022 Feb;231:113166 WB ; Bovine . 35030520

[IF=5.396] Xiuxiu Wang. et al. Very-light alcohol consumption suppresses breast tumor progression in a mouse model. Food Funct. 2022 Mar;; IF ; Mouse . 35230367