bs-0165R

[Primary Antibody]

EGFR Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1956 **SWISS:** P00533

Target: EGFR

Immunogen: KLH conjugated synthetic peptide derived from human EGFR: 951-1050/1210. < Cytoplasmic >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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]

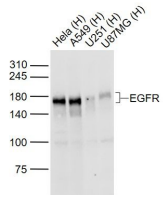
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)

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

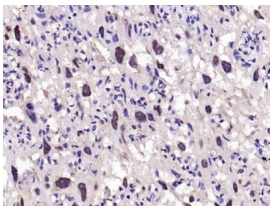
Predicted MW.: 130 kDa

Subcellular Location: Secreted ,Cell membrane ,Cytoplasm ,Nucleus

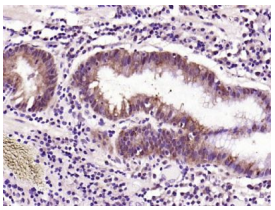
VALIDATION IMAGES



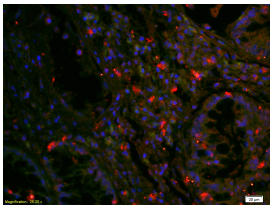
Sample: Lane 1: Hela (Human) Cell Lysate at 30 ug Lane 2: A549 (Human) Cell Lysate at 30 ug Lane 3: U251 (Human) Cell Lysate at 30 ug Lane 4: U87MG (Human) Cell Lysate at 30 ug Primary: Anti-EGFR (bs-34018R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band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



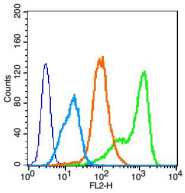
Paraformaldehyde-fixed, paraffin embedded (rat placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (EGFR) Polyclonal Antibody,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



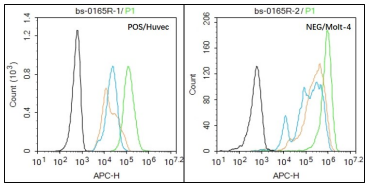
Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (EGFR) Polyclonal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



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



Black line : Positive blank control (HUVEC); Negative blank control (Molt-4) Green line : Primary Antibody (Rabbit Anti-EGFR antibody (bs-0165R)) Orange line: Isotype Control

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

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 /1x10^6 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.

Antibody (Rabbit IgG) . Blue line : Secondary Antibody (Goat anti-rabbit IgG-AF647) HUVEC （Positive） and Molt-4 （Negative control） cells (black) were fixed with 4% PFA for 10min at room temperature,permeabilized with 90% ice-cold methanol for 20 min at -20°C, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with EGFR Antibody(bs-0165R)at 1:50 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody(blue) incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).

SELECTED CITATIONS

- **[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=6.6]** Yu-Tao Deng. et al. Amphiregulin contributes to neuropathic pain by enhancing glycolysis that stimulates histone lactylation in sensory neurons. SCI SIGNAL. 2025 Jun;18(891) IF,WB ;Mouse. 40526786
- **[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