

KD-Validated Anti-EGFR Recombinant Rabbit Monoclonal Antibody



Catalog #: 62326

Aliases

EGFR; Epidermal Growth Factor Receptor; ERBB1; ERBB; Receptor Tyrosine-Protein Kinase ErbB-1; Erb-B2 Receptor Tyrosine Kinase 1; Proto-Oncogene C-ErbB-1; EC 2.7.10.1; HER1; Epidermal Growth Factor Receptor (Avian Erythroblastic Leukemia Viral (V-Erb-B) Oncogene Homolog); Erythroblastic Leukemia Viral (V-Erb-B) Oncogene Homolog (Avian); Avian Erythroblastic Leukemia Viral (V-Erb-B) Oncogene Homolog; Epidermal Growth Factor Receptor Tyrosine Kinase Domain; Cell Proliferation-Inducing Protein 61; Cell Growth Inhibiting Protein 40; EGFR VIII; EC 2.7.10; NISBD2; PIG61; MENA

Background

Gene Name: EGFR

NCBI Gene Entry: [1956](#)

UniProt Entry: [P00533](#)

Application Information

Molecular Weight: Predicted, 134 kDa, observed, 175 kDa

Clonality: Rabbit monoclonal antibody

Clone ID: 23GB810

Species Reactivity: Human

Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC), Immunohistochemistry (IHC)

Immunogen

A synthesized peptide derived from human EGFR

Isotype

Rabbit IgG

Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.

Storage

Store at -20 °C for one year.

Recommended Dilutions

Western Blotting (WB): 1:1,000-1:5,000

SUPPORT

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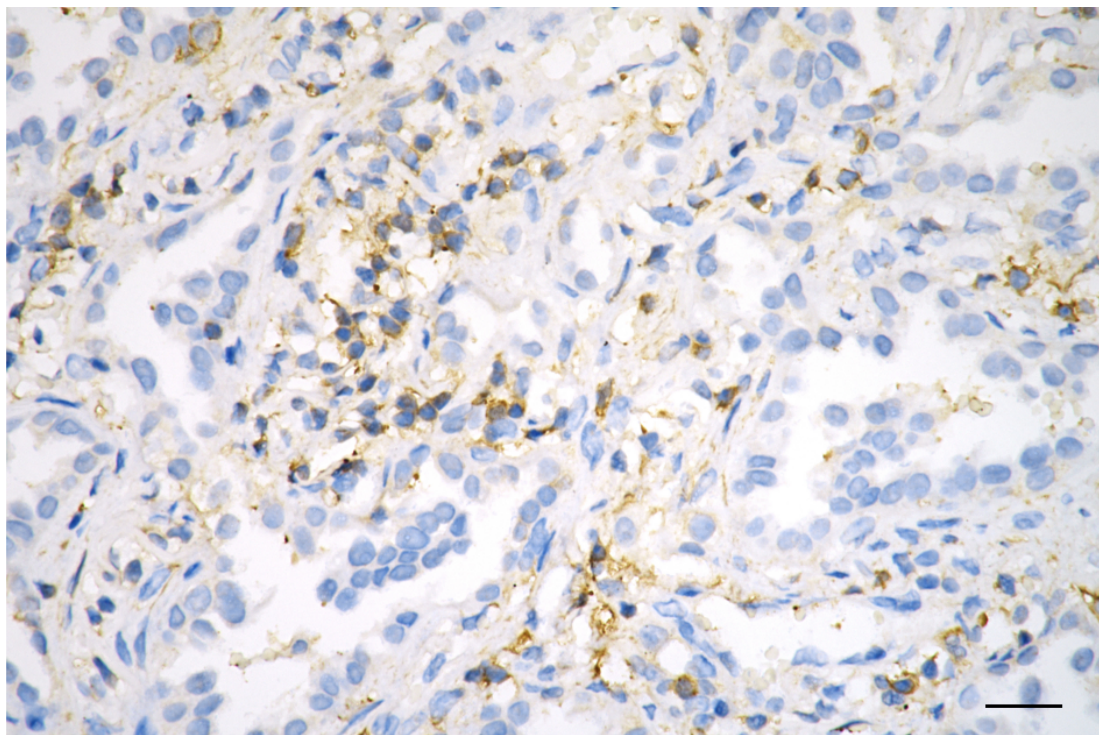
Flow Cytometry (FCM): 1:2,000

Immunocytochemistry (IC): 1:100-1:1,000

Immunohistochemistry (IHC): 1:100-1:200

Note: This product is for research use only.

Validation Data



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Immunohistochemistry was performed on paraffin-embedded human lung adenocarcinoma using anti-EGFR antibody (Cat#62326, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μ m.

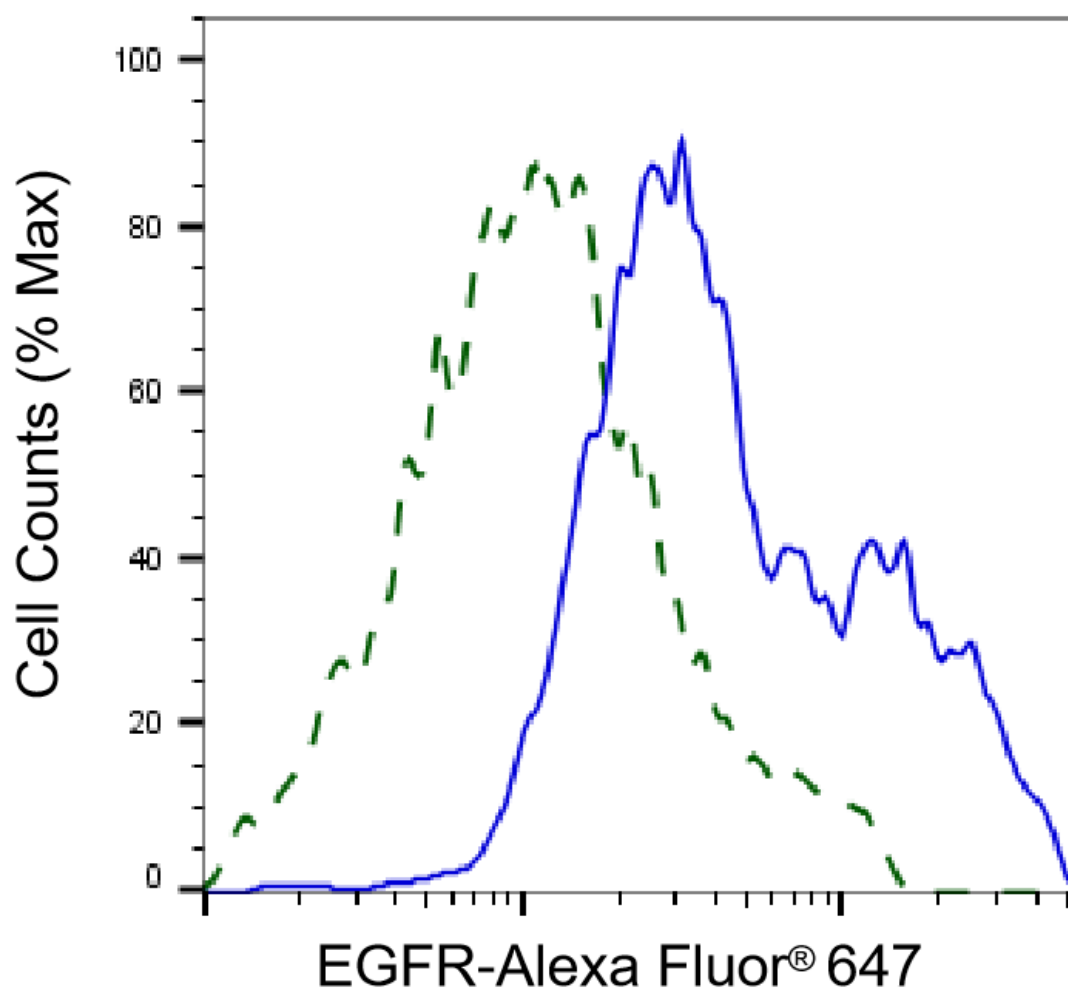
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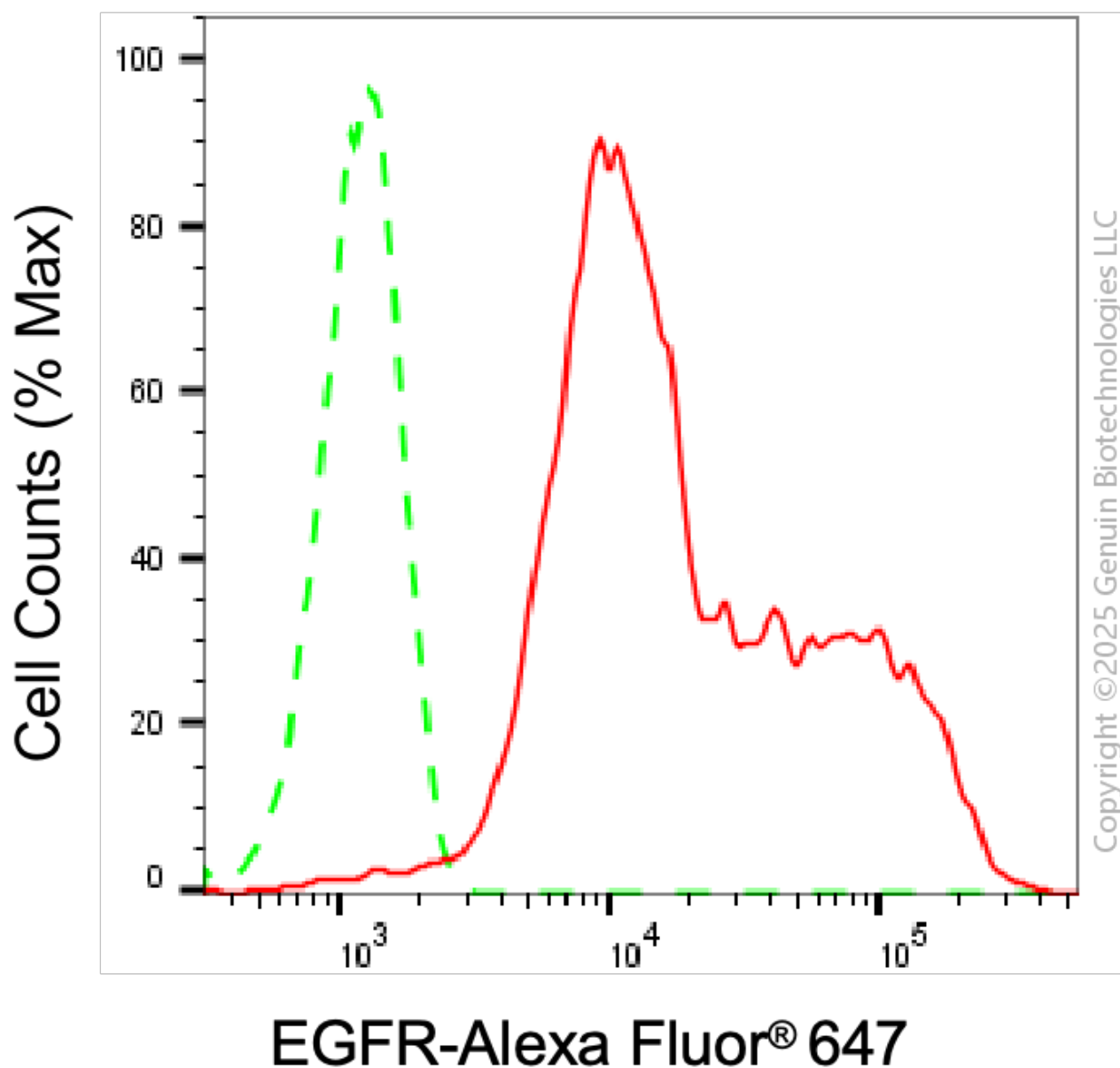
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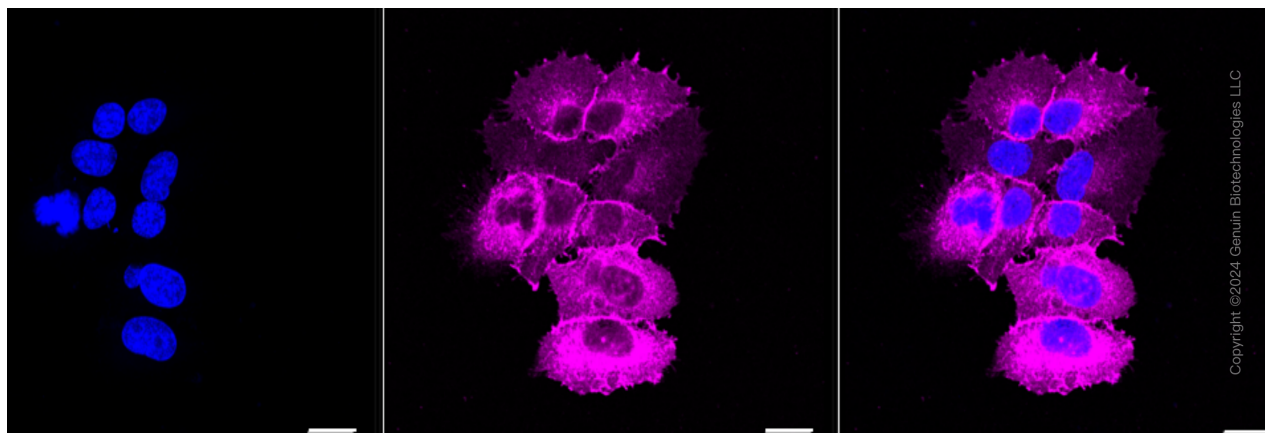


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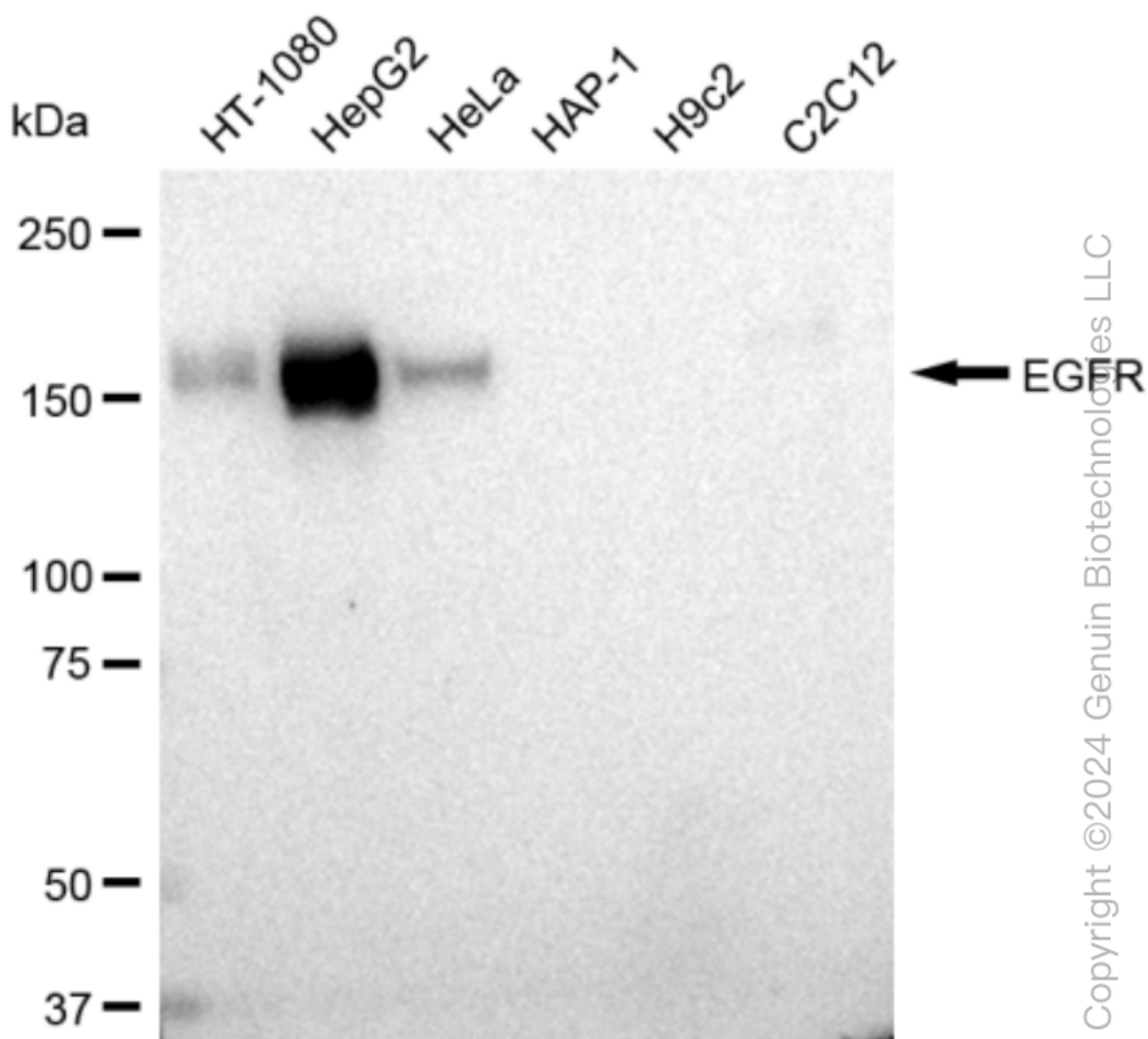
Validation of EGFR knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HepG2 cells were stained with anti-EGFR antibody (Cat#62326, 1:2,000) and analyzed using BD flow cytometer.



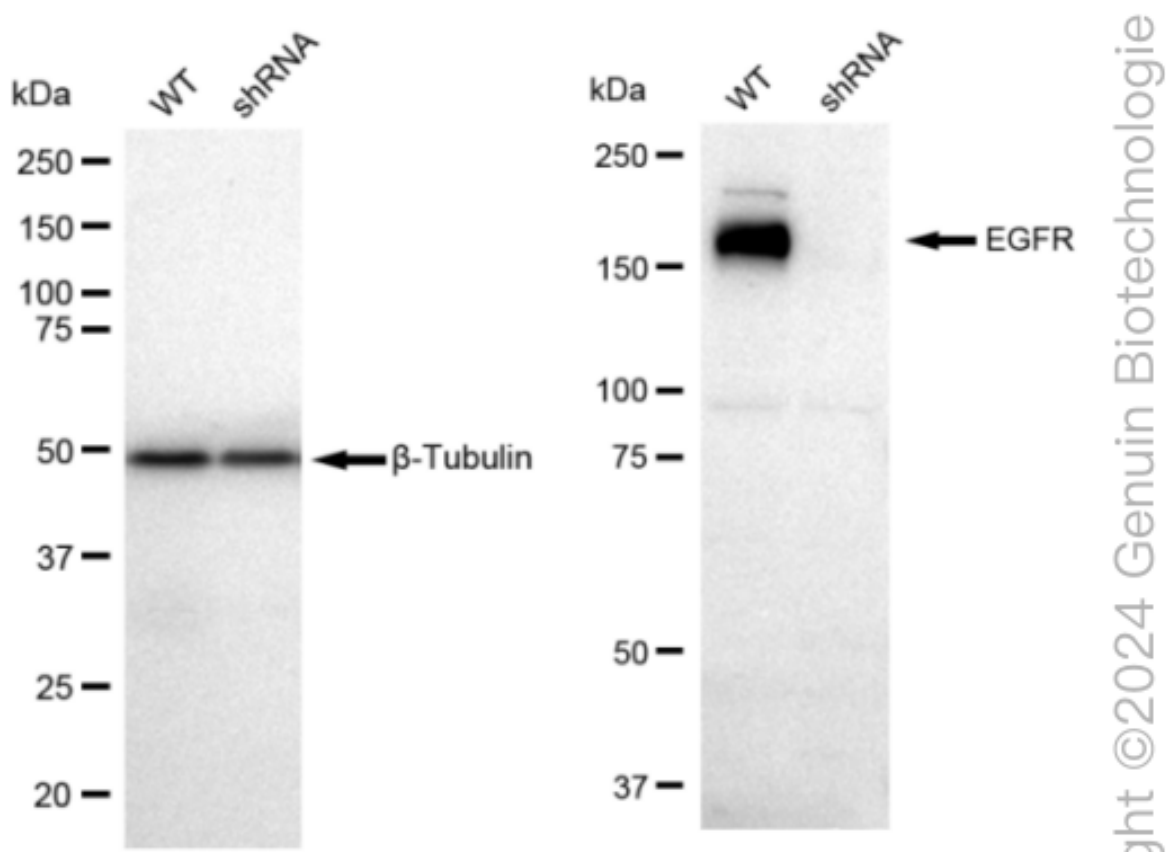
Flow cytometric analysis of EGFR expression in HepG2 cells using anti-EGFR antibody (Cat #62326, 1:2,000). Green, isotype control; red, EGFR.



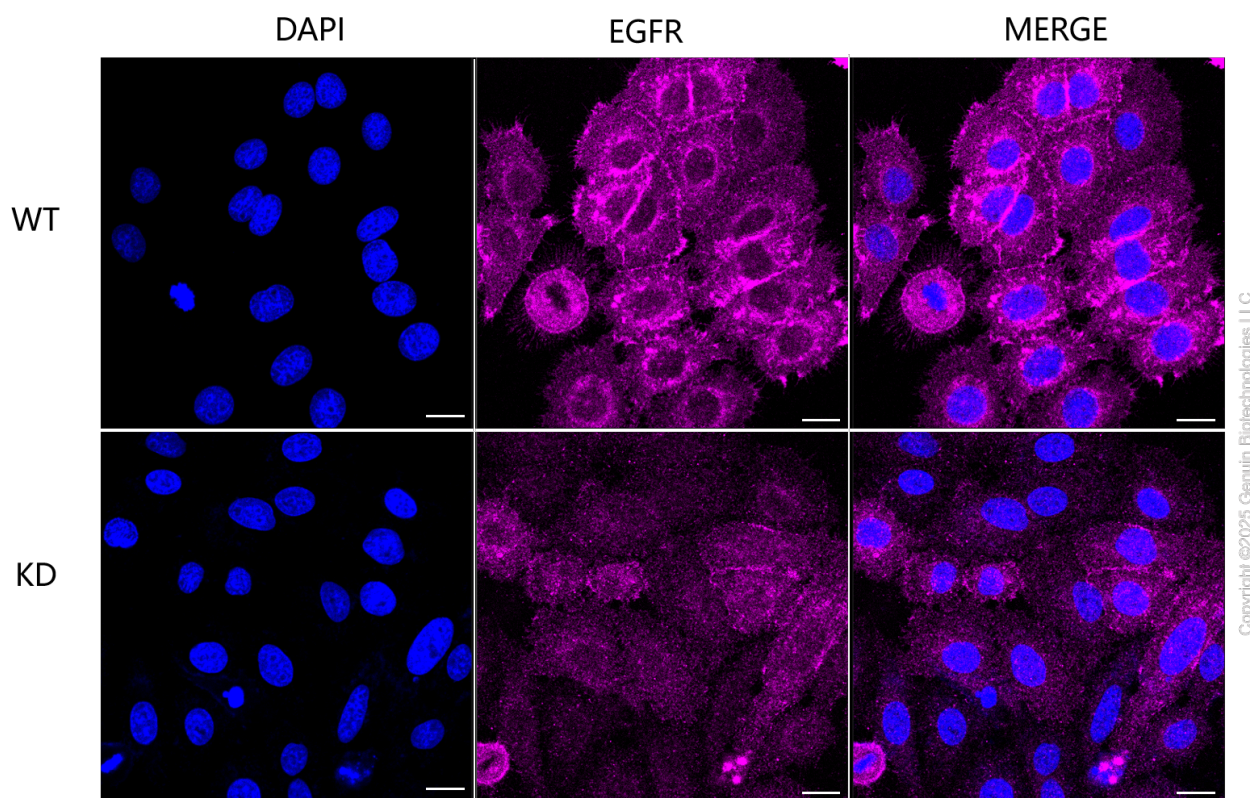
Immunocytochemical staining of HepG2 cells with EGFR antibody (Cat#62326, 1:1,000). Nuclei were stained blue with DAPI; EGFR was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.



Western blotting analysis using anti-EGFR antibody (Cat#62326). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-EGFR antibody (Cat#62326, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



Western blotting analysis using anti-EGFR antibody (Cat#62326). EGFR expression in wild type (WT) and EGFR shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-EGFR antibody (Cat#62326, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:50,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



Immunocytochemical staining of HepG2 cells using anti-EGFR antibody (Cat#62326, 1:1,000), Top panel: wild-type (WT); Bottom panel:EGFR shRNA knockdown (KD). Nuclei were stained blue with DAPI;EGFR was stained magenta with Alexa Fluor® 647. Scale bar, 20 μ m. Permeabilization: Triton.