

# Anti-EGFR Antibody

## ER1512-6



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse
<b>Applications:</b>	WB, IF-Cell, IHC-P, FC
<b>Molecular Wt:</b>	Predicted band size: 134 kDa

**Description:** Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses. Known ligands include EGF, TGFA/TGF- $\alpha$ , amphiregulin, epigen/EPGN, BTC/betacellulin, epiregulin/REG and HBEGF/heparin-binding EGF. Ligand binding triggers receptor homo- and/or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLC $\gamma$ -PKC and STATs modules. May also activate the NF- $\kappa$ -B signaling cascades.

**Immunogen:** Synthetic peptide within human EGFR aa 914-1036.

**Positive control:** HepG2, Hela, SW480, LOVO, human liver tissue, human kidney tissue, human placenta tissue, A431.

**Subcellular location:** Plasma membrane, Nucleus, Endosome, Endoplasmic reticulum.

**Database links:** SwissProt: P00533 Human | Q01279 Mouse

### Recommended Dilutions:

<b>WB</b>	1:500-2,000
<b>IF-Cell</b>	1:50-1:200
<b>IHC-P</b>	1:50-1:200
<b>FC</b>	1:50-1:100

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Immunogen affinity purified.

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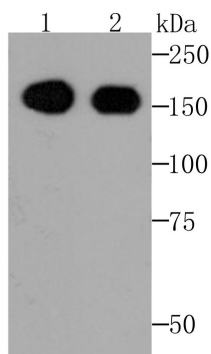
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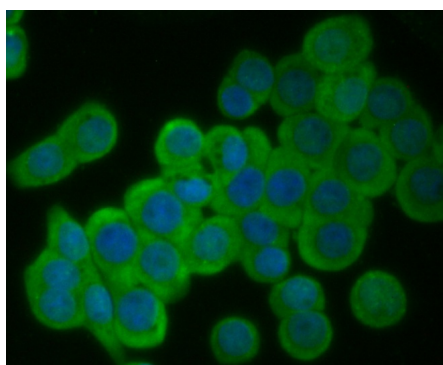
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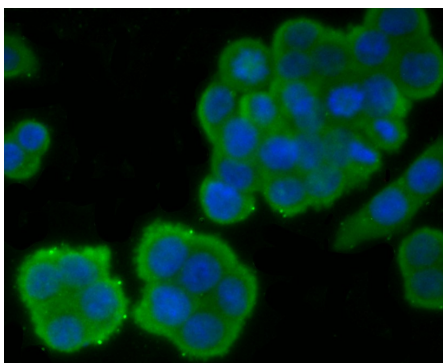
## Images



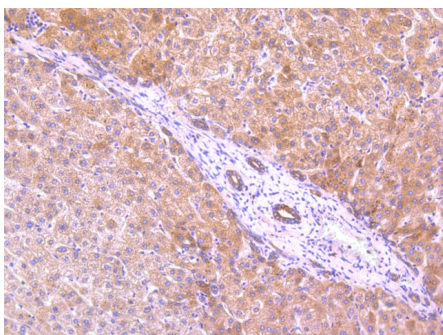
**Fig1:** Western blot analysis of EGFR on HepG2 (1) and Hela (2) cell lysates using anti-EGFR antibody at 1/1,000 dilution.



**Fig2:** ICC staining EGFR in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig3:** ICC staining EGFR in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig4:** Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-EGFR antibody. Counter stained with hematoxylin.

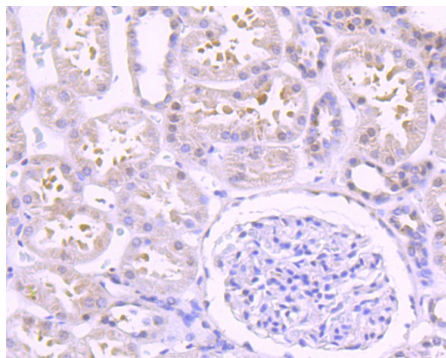
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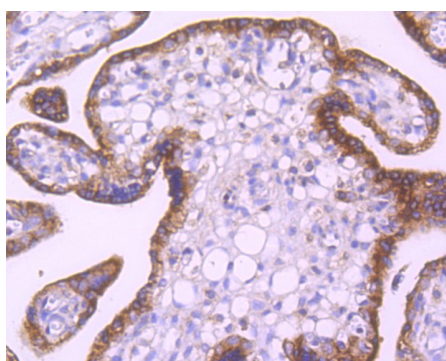
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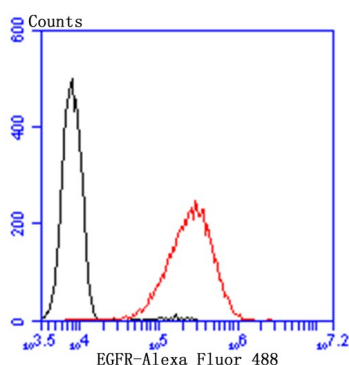
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**Fig5:** Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-EGFR antibody. Counter stained with hematoxylin.



**Fig6:** Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-EGFR antibody. Counter stained with hematoxylin.



**Fig7:** Flow cytometric analysis of A431 cells with EGFR antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Lupberger J. et al. EGFR and EphA2 are host factors for hepatitis C virus entry and possible targets for antiviral therapy. *Nat. Med.* 17:589-595 (2011).
2. Groenestege W.M.T. et al. Impaired basolateral sorting of pro-EGF causes isolated recessive renal hypomagnesemia. *J. Clin. Invest.* 117:2260-2267 (2007).

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