Catalog: OM638942

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EGFR

Catalog: OM638942

☐ 100 µl

Product profile

Product name	EGFR
Antibody Type	Primary Antibodies
Product description	The EGF receptor family comprises several related receptor tyrosine kinases that are frequently overexpressed in a variety of carcinomas. Members of this receptor family include EGFR (HER1), Neu (ErbB-2, HER2), ErbB-3 (HER3) and ErbB-4 (HER4), which form either homodimers or heterodimers upon ligand binding. Exons in the EGFR gene product are frequently either deleted or duplicated to produce deletion mutants (DM) or tandem duplication mutants (TDM), respectively, which are detected at various molecular weights. EGFR binds several ligands, including epidermal growth factor (EGF), transforming growth factor α (TGFα), Amphiregulin and heparin binding-EGF (HB-EGF). Ligand binding promotes the internalization of EGFR via Clathrin-coated pits and its subsequent degradation in response to its intrinsic tyrosine kinase. EGFR is involved in organ morphogenesis and maintenance and repair of tissues, but upregulation of EGFR is associated with tumor progression. The oncogenic effects of EGFR include initiation of DNA synthesis, enhanced cell growth, invasion and metastasis. Abrogation of EGFR results in cell cycle arrest, apoptosis or dedifferentiation of cancer cells, suggesting that EGFR may be an effective therapeutic target.
Immunogen	Recombinant protein.

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,ICC ,IHC ,FC
Species Reactivity	Human Mouse Rat
Concentration	1 mg/mL.

Target Information

Alternative Names	Avian erythroblastic leukemia viral (v erb b) oncogene homolog antibody Cell growth inhibiting protein 40 antibody Cell proliferation inducing protein 61 antibody EGF R antibody EGFR antibody EGFR_HUMAN a

ntibody Epidermal growth factor receptor (avian erythroblastic leukemia viral (v erb b) oncogene homolog) antibody Epidermal growth factor receptor (erythroblastic leukemia viral (v erb b) oncogene homolog avi an) antibody Epidermal growth factor receptor antibody erb-b2 receptor tyrosine kinase 1 antibody ERBB antibody ERBB1 antibody Errp antibody HER1 antibody mENA antibody NISBD2 antibody Oncogen ERBB antibody PIG61 antibody Proto-oncogene c-ErbB-1 antibody Receptor tyrosine protein kinase ErbB 1 ant ibody Receptor tyrosine-protein kinase ErbB-1 antibody SA7 antibody Species antigen 7 antibody Urogas trone antibody v-erb-b Avian erythroblastic leukemia viral oncogen homolog antibody wa2 antibody Wa5 antibody

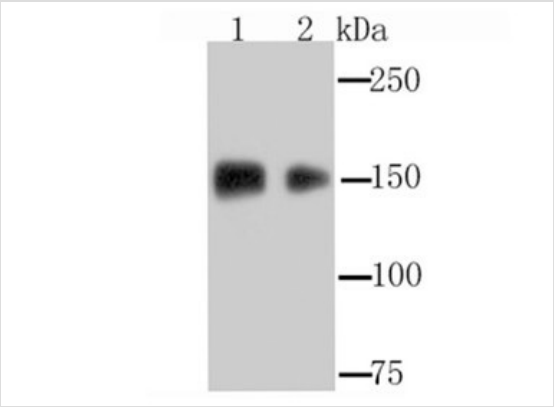
Molecular Weight(MW) 175 kDa

Cellular Localization Secreted and Cell membrane. Endosome membrane. Nucleus.

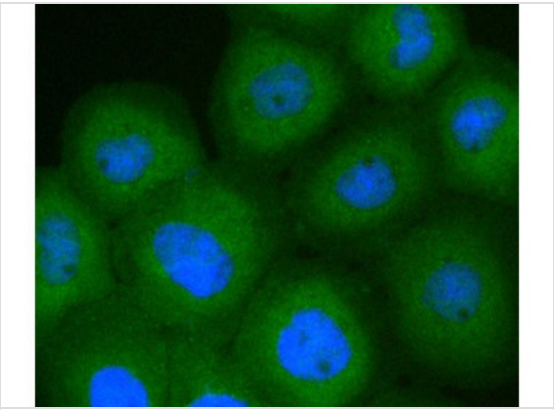
Database Links

SwissProt ID P00533
Q01279

Application

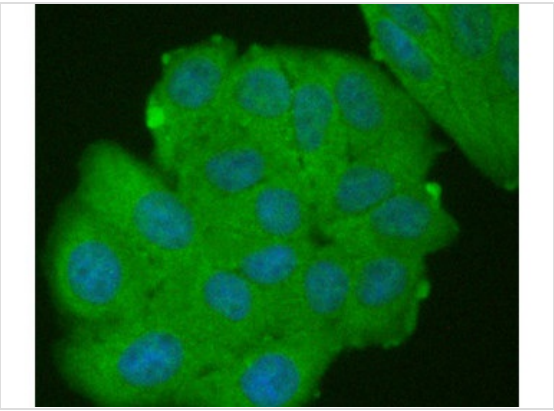


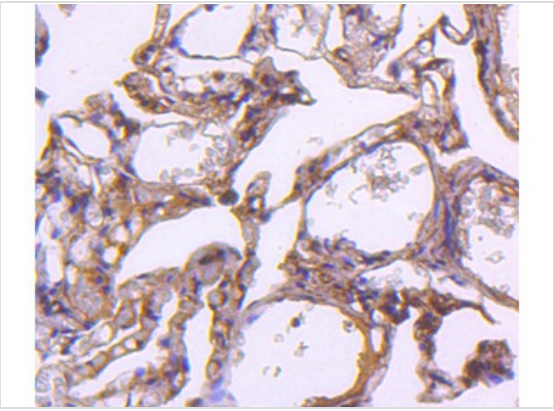
Application
Fig1: Western blot analysis of EGFR on A431 (1) and HepG2 (2) cell lysate using anti-EGFR antibody at 1/1,000 dilution.



Application
Fig2: ICC staining EGFR in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

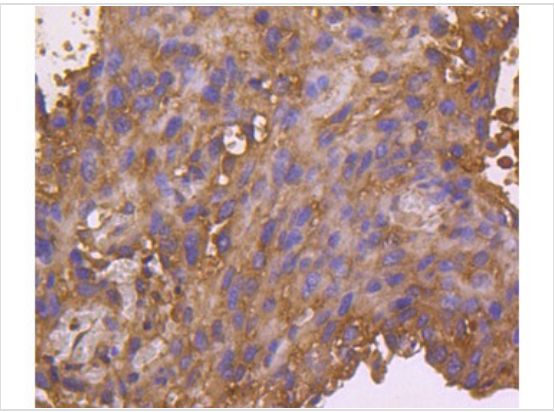
Application
Fig3: ICC staining EGFR in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





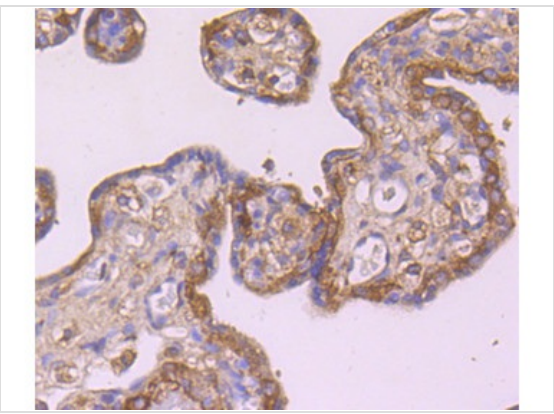
Application

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



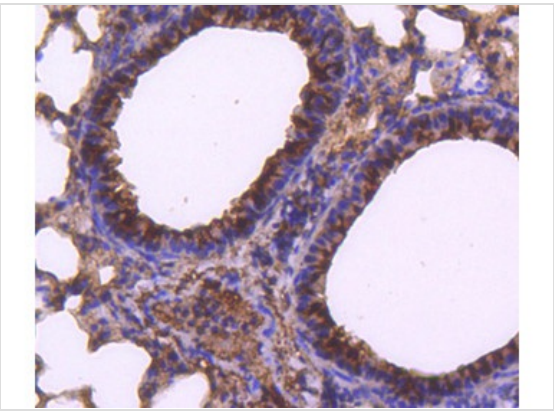
Application

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



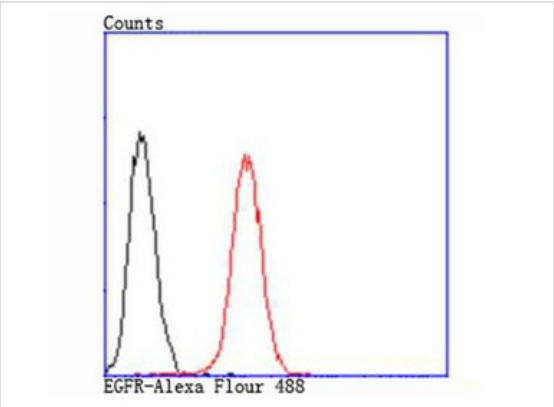
Application

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



Application

Fig7: Immunohistochemical analysis of paraffin-embedded mouse lung tissue using anti-EGFR antibody. Counter stained with hematoxylin.



Application

Fig8: Flow cytometric analysis of PANC-1 cells with EGFR antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Positive Control	A431, HepG2, PANC-1, human lung tissue, human breast cancer tissue, human placenta tissue, mouse lung tissue.
Application Notes	**WB**:1:500~1:2000 **ICC**:1:200~1:500 **IHC**:1:50~1:200 **FC**:1:200~1:500 **Notes**:Optimal dilutions/concentrations should be determined by the researcher.

Additional Information

Form	Liquid
Storage Instructions	Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.
Storage Buffer	1*TBS (pH7.4), 0.5%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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