

产品名称: EGFR Rabbit Polyclonal Antibody
产品货号: APRab10343



产品概述 (Summary)

产品名称 (Production Name)	EGFR Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	EGFR
别名 (Alternative Names)	EGFR; ERBB; ERBB1; HER1; Epidermal growth factor receptor; Proto-oncogene c-ErbB-1; Receptor tyrosine-protein kinase erbB-1
基因 ID (Gene ID)	1956.0
蛋白 ID (SwissProt ID)	P00533.The antiserum was produced against synthesized peptide derived from human EGFR. AA range:986-1035

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000
蛋白分子量 (Molecular Weight)	175kDa

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研究背景 (Background)

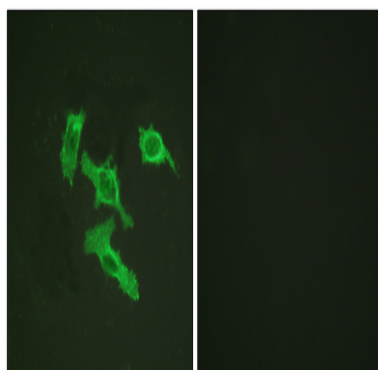
The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer. [provided by RefSeq, Jun 2016], catalytic activity: ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate., disease: Defects in EGFR are associated with lung cancer [MIM:211980], function: Isoform 2/truncated isoform may act as an antagonist., function: Receptor for EGF, but also for other members of the EGF family, as TGF- α , amphiregulin, betacellulin, heparin-binding EGF-like growth factor, GP30 and vaccinia virus growth factor. Is involved in the control of cell growth and differentiation. Phosphorylates MUC1 in breast cancer cells and increases the interaction of MUC1 with C-SRC and CTNNB1/beta-catenin., miscellaneous: Binding of EGF to the receptor leads to dimerization, internalization of the EGF-receptor complex, induction of the tyrosine kinase activity, stimulation of cell DNA synthesis, and cell proliferation., online information: EGFR entry, PTM: Monoubiquitinated and polyubiquitinated upon EGF stimulation; which does not affect tyrosine kinase activity or signaling capacity but may play a role in lysosomal targeting. Polyubiquitin linkage is mainly through 'Lys-63', but linkage through 'Lys-48', 'Lys-11' and 'Lys-29' also occur., PTM: Phosphorylation of Ser-695 is partial and occurs only if Thr-693 is phosphorylated., similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family., similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily., similarity: Contains 1 protein kinase domain., subunit: Binds RIPK1. CBL interacts with the autophosphorylated C-terminal tail of the EGF receptor. Part of a complex with ERBB2 and either PIK3C2A or PIK3C2B. The autophosphorylated form interacts with PIK3C2B, maybe indirectly. Interacts with PELP1. Binds MUC1., tissue specificity: Ubiquitously expressed. Isoform 2 is also expressed in ovarian cancers.,

研究领域 (Research Area)

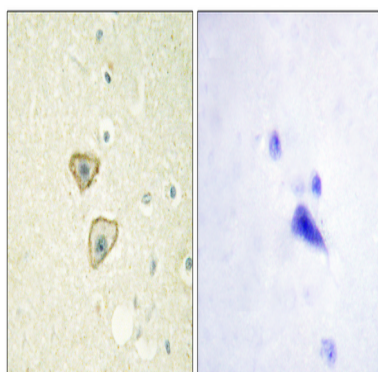
MAPK_ERK_Growth; MAPK_G_Protein; ErbB_HER; Calcium; Cytokine-cytokine receptor interaction; Endocytosis; Dorso-ventral axis formation; Focal adhesion; Adherens_Junction; Gap junction; Regulates Actin and Cytoskeleton; GnRH; Epithelial cell signaling in Helicobacter pylori infection; Pathways in cancer; Colorectal cancer; Pancreatic cancer; Endometrial cancer; Glioma; Prostate cancer; Melanoma; Bladder cancer; Non-small cell lung cancer;

图片 (Image Data)

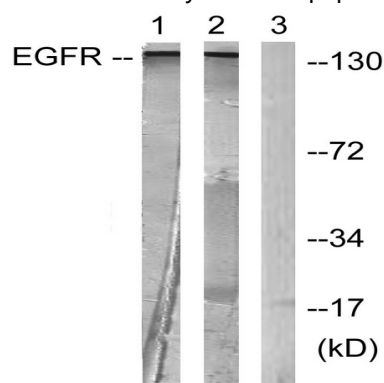
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Immunofluorescence analysis of HepG2 cells, using EGFR Antibody. The picture on the right is blocked with the synthesized peptide.

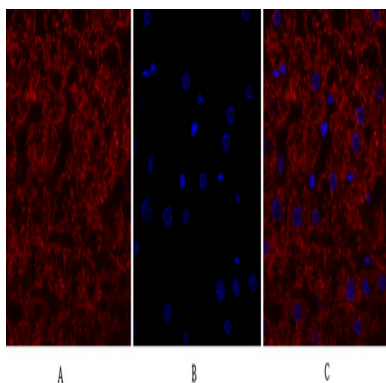


Immunohistochemistry analysis of paraffin-embedded human brain tissue, using EGFR Antibody. The picture on the right is blocked with the synthesized peptide.

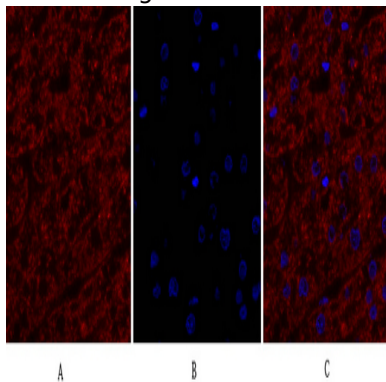


Western blot analysis of lysates from HUVEC cells, treated with Serum 20% 30', using EGFR Antibody. The lane on the right is blocked with the synthesized peptide.

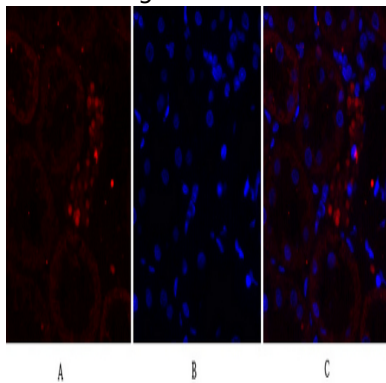
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Immunofluorescence analysis of human-liver tissue. 1,EGFR Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

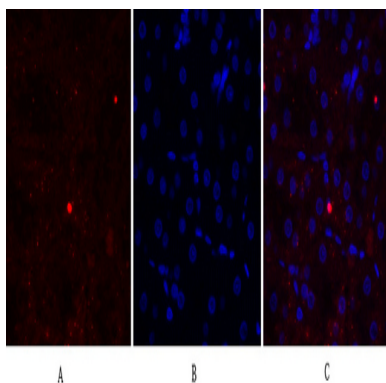


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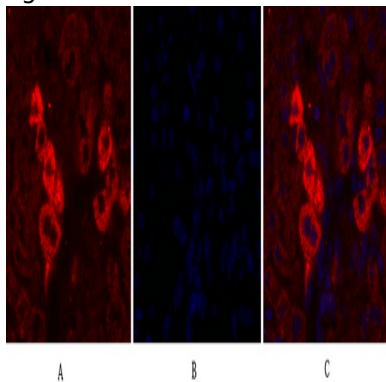
Immunofluorescence analysis of rat-kidney tissue. 1,EGFR Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

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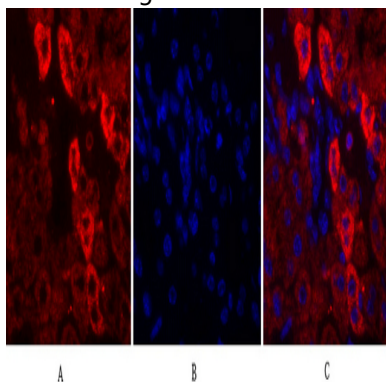


Immunofluorescence analysis of rat-kidney tissue. 1,EGFR Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) .
2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of mouse-liver tissue. 1,EGFR Polyclonal Antibody (red) was diluted at
1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B:
DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of mouse-liver tissue. 1,EGFR Polyclonal Antibody (red) was diluted at
1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B:
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注意事项 (Note)

For research use only .