



EGFR (PTR2121) Mouse mAb

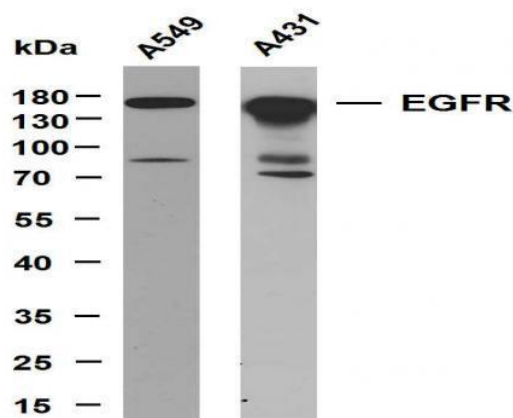
Catalog No	YP-Ab-17941
Isotype	IgG
Reactivity	Human
Applications	WB;ELISA
Target	EGFR
Fields	>>EGFR tyrosine kinase inhibitor resistance;>>Endocrine resistance;>>MAPK signaling pathway;>>ErbB signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>Calcium signaling pathway;>>HIF-1 signaling pathway;>>FoxO signaling pathway;>>Phospholipase D signaling pathway;>>Endocytosis;>>PI3K-Akt signaling pathway;>>Focal adhesion;>>Adherens junction;>>Gap junction;>>JAK-STAT signaling pathway;>>Regulation of actin cytoskeleton;>>GnRH signaling pathway;>>Estrogen signaling pathway;>>Oxytocin signaling pathway;>>Relaxin signaling pathway;>>Parathyroid hormone synthesis, secretion and action;>>Cushing syndrome;>>Epithelial cell signaling in Helicobacter pylori infection;>>Shigellosis;>>Hepatitis C;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Coronavirus disease - COVID-19;>>Pathways in cancer;>>Proteoglycans in cancer;>>MicroRNAs in cancer;>>Chemical carcinogenesis - receptor activation;>>Chemical carcinogenesis - reactive oxygen species;>>Colorectal cancer
Gene Name	EGFR
Protein Name	Epidermal growth factor receptor
Specificity	The antibody detects endogenous EGFR proteins.
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Host	Mouse
Source	Monoclonal, Mouse IgG2a, Kappa
Observed Band	175kD
Cell Pathway	MAPK_ERK_Growth;MAPK_G_Protein;ErbB_HER;Calcium;Cytokine-cytokine receptor interaction;Endocytosis;Dorso-ventral axis formation;Focaladhesion;Adherens_Junction;Gap junction;Regulates Actin and Cytosk
Dilution	WB 1:1000,ELISA 1:5000-20000
Immunogen	Synthetic Peptide of EGFR AA range: 300-400
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Function	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-alpha, amphiregulin, betacellulin, heparin-binding EGF-like growth factor, GP30 and vaccinia virus growth factor. Is involved in the control of cell



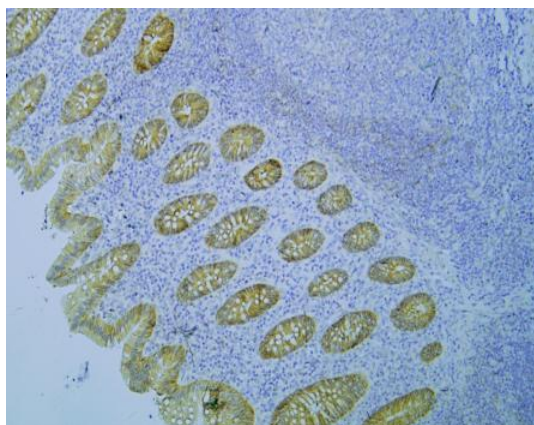
growth and differentiation. Phosphorylates MUC1 in breast cancer cells and increases the interaction of MUC1 with C-SRC and CTNNB1/beta-catenin. miscellaneous: Binding of EGF to the receptor leads to dimerization, internalization of the EGF-receptor complex, induction of the tyrosine kinase activity, stimulation of cell DNA synthesis, and cell proliferation. online information: EGFR entry, PTM: Monoubiquitinated and polyubiquitinated upon EGF stimu

Subcellular Location	Cell membrane ; Single-pass type I membrane protein . Endoplasmic reticulum membrane ; Single-pass type I membrane protein. Golgi apparatus membrane; Single-pass type I membrane protein. Nucleus membrane; Single-pass type I membrane protein. Endosome . Endosome membrane. Nucleus . In response to EGF, translocated from the cell membrane to the nucleus via Golgi and ER (PubMed:20674546, PubMed:17909029). Endocytosed upon activation by ligand (PubMed:2790960, PubMed:17182860, PubMed:27153536, PubMed:17909029). Colocalized with GPER1 in the nucleus of estrogen agonist-induced cancer-associated fibroblasts (CAF) (PubMed:20551055). .; [Isoform 2]: Secreted.
Expression	Ubiquitously expressed. Isoform 2 is also expressed in ovarian cancers.
Sort :	275
Modifications	Unmodified
Concentration	1 mg/ml
Purity	≥90%
Storage	-15°C to -25°C/1 year(Do not lower than -25°C)
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

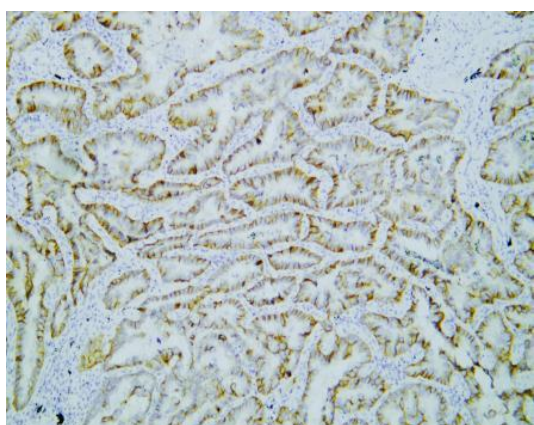
Products Images



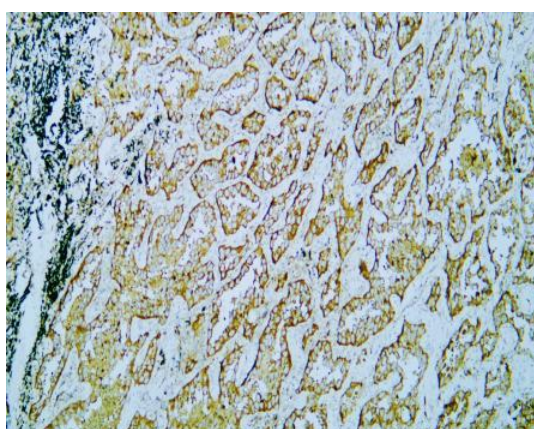
Various whole cell lysates were separated by 8% SDS-PAGE, and the membrane was blotted with anti-EGFR(PTR2121) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: A431 Predicted band size: 170kDa Observed band size: 170kDa



Human appendix tissue was stained with Anti-EGFR (PTR2121) Antibody



Human lung adenocarcinoma tissue was stained with Anti-EGFR (PTR2121) Antibody



Human lung adenocarcinoma tissue was stained with Anti-EGFR (PTR2121) Antibody