

EGFR (Phospho Tyr845) (PT1384R) PT™ Rabbit mAb

CatalogNo: YM9226 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human

Applications

- WB,IF,ELISA

MW

- 134kD (Calculated)
200kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

Basic Information

Clonality Monoclonal

Clone Number PT1384R

Immunogen Information

Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity EGFR (Phospho Tyr845) Antibody detects endogenous levels of EGFR protein only when phosphorylated at Tyr845. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):VLvKT

Target Information

Gene name EGFR ERBB ERBB1 HER1

Protein Name Epidermal growth factor receptor

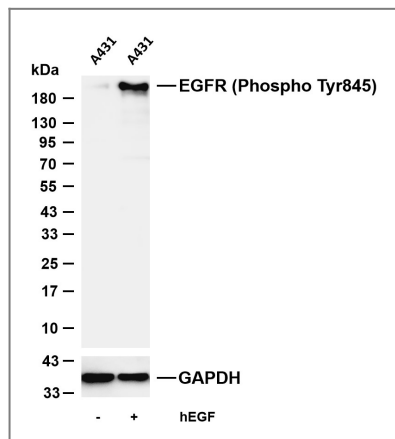
Organism	Gene ID	UniProt ID
Human	1956 ;	P00533 ;
Mouse	13649 ;	Q01279 ;

Cellular Localization 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.

Tissue specificity Ubiquitously expressed. Isoform 2 is also expressed in ovarian cancers.

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 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. ,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-EGFR (Phospho Tyr845) (PT1384R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: A431 Lane 2: A431 was treated with hEGF (100ng/ml) for 30 minutes Predicted band size: 134kDa Observed band size: 200kDa

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EGFR (Phospho Tyr845) (PT1384R) PT™ Rabbit mAb

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