

## EGFR(Phospho-Tyr1172) Antibody

Catalog No: #11220



Package Size: #11220-1 50ul #11220-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	EGFR(Phospho-Tyr1172) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level EGFR only when phosphorylated at tyrosine 1172.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 1172 (P-D-Y(p)-Q-Q) derived from Human EGFR.
Conjugates	Unconjugated
Target Name	EGFR
Modification	Phospho
Other Names	ERBB1; Receptor protein-tyrosine kinase ErbB-1; kinase EGFR
Accession No.	Swiss-Prot: P00533NCBI Protein: NP_005219.2
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

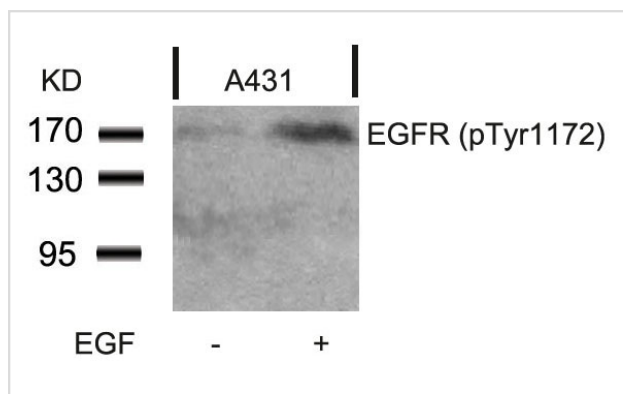
## Application Details

Predicted MW: 175kd

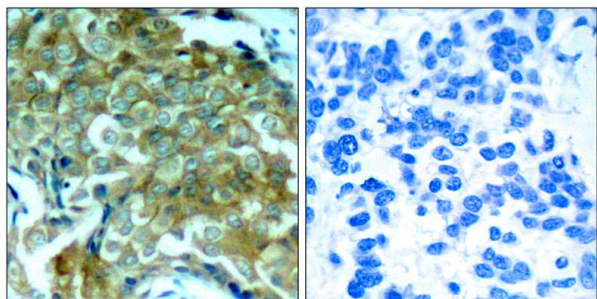
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

## Images



Western blot analysis of extracts from A431 cells untreated or treated with EGF using EGFR(Phospho-Tyr1172) Antibody #11220.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using EGFR(Phospho-Tyr1172) Antibody #11220(left) or the same antibody preincubated with blocking peptide(right).

## Background

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 SRC and CTNNB1/beta-catenin.

Noguchi T, et al. (1994) Mol Cell Biol 14(10): 6674-6682

Doherty JK, et al. (1999) Proc Natl Acad Sci U S A 96(19): 10869-10874

Kanner SB, et al. (1991) Mol Cell Biol 11(2): 713-720

Wu TT, et al. (1998) Mol Biol Cell 9(7): 1661-1674

O

## Published Papers

Yang W, Zheng Y, Xia Y et al., ERK1/2-dependent phosphorylation and nuclear translocation of PKM2 promotes the Warburg effect., Nature Cell Biology, 14(12):1295-1304(2012)

[PMID:23178880](#)

et al., Epidermal Growth Factor (EGF)-enhanced Vascular Cell Adhesion molecule-1 (VCAM-1) Expression Promotes Macrophage and Glioblastoma Cell Interaction and Tumor Cell Invasion.In J Biol Chem on 2013 Nov 1 by Yanhua Zheng, Weiwei Yang,et al..PMID:24045955, , (2013)

[PMID:24045955](#)

et al., EGFR-induced and PKC $\theta$  monoubiquitylation-dependent NF- $\kappa$ B activation upregulates PKM2 expression and promotes tumorigenesis. In Mol Cell on 2012 Dec 14 by

Weiwei Yang, Yan Xia, et al..PMID: 23123196, , (2012)

[PMID:23123196](#)

et al., PKM2 Phosphorylates Histone H3 and Promotes Gene Transcription and Tumorigenesis. In Cell on 2012 Aug 17 by Weiwei Yang, Yan Xia, et al..PMID: 22901803, , (2012)

[PMID:22901803](#)

et al., EGF-enhanced vascular cell adhesion molecule-1 (VCAM-1) expression promotes macrophage and glioblastoma cell interaction and tumor cell invasion. In J Biol Chem on 2013 Nov 1 by Yanhua Zheng, Weiwei Yang, et al..PMID: 24045955, , (2013)

[PMID:24045955](#)

et al., Tumor-penetrating Peptide Fused EGFR Single-Domain Antibody Enhances Cancer Drug Penetration Into 3D Multicellular Spheroids and Facilitates Effective Gastric Cancer Therapy .In J Control Release on 2015 Feb 28 by Huizi Sha , Zhengyun Zou et al..PMID: 25553823, , (2015)

[PMID:25553823](#)

et al., EGFR phosphorylation of DCBLD2 recruits TRAF6 and stimulates AKT-promoted tumorigenesis. In J Clin Invest on 2014 Sep by An-Jey A Su, Philip E Auron, et al..PMID:25061874

, , (2014)

[PMID:25061874](#)

el at., Epidermal growth factor (EGF)-enhanced vascular cell adhesion molecule-1 (VCAM-1) expression promotes macrophage and glioblastoma cell interaction and tumor cell invasion.. In J Biol Chem on 2013 Nov 1 by Yanhua Zheng, Weiwei Yang, et al..PMID:24045955, , (2013)

[PMID:24045955](#)

---

---

Note: This product is for in vitro research use only and is not intended for use in humans or animals.