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PRODUCT DATASHEET

Anti-EGFR (Tyr-1101), Phosphospecific Antibody

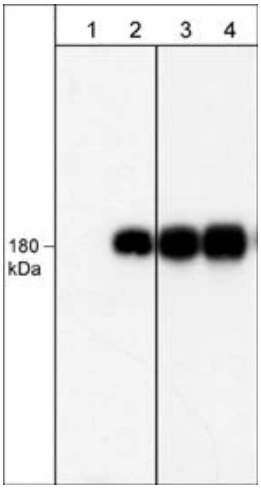
phosphosolutions ANTIBODIES THAT WORK

Product Details

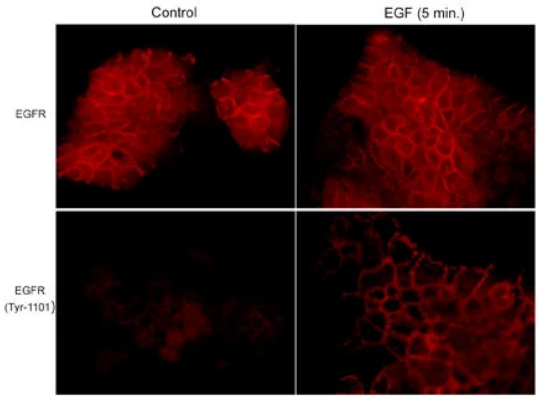
Available Variants	100 µL (SKU:EM1991)
Conjugate	Unconjugated
Isotype	IgG1
Clone	M199
Gene Name	EGFR
Host Species	Mouse
Format	Protein A Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:200
Species Reactivity	Human, Mouse, Rat
Immunogen	Clone M199 was generated from a phospho-EGFR (Tyr-1101) synthetic peptide (coupled to KLH) corresponding to amino acid residues surrounding tyrosine 1101 of human EGFR (ErbB-1). This human EGFR sequence has high homology to rat and mouse EGFR, and is not conserved in other ErbB family members. This site is Tyr-1125 in the P00533-1 version of the human EGFR sequence.
Specificity	This antibody antibody detects a 180 kDa* protein on SDS-PAGE immunoblots of human A431 cells treated with EGF, and does not detect this band in control cells.
Molecular Weight	180
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	P00533 UniProt Summary: Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses. Known ligands include EGF, TGFA/TGF-alpha, AREG, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF. Ligand binding triggers receptor homo- and/or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules. May also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G protein-coupled receptor signaling. Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin. Positively regulates cell migration via interaction with CCDC88A/GIV which retains EGFR at the cell membrane following ligand stimulation, promoting EGFR signaling which triggers cell migration. Plays a role in enhancing learning and memory performance. Plays a role in mammalian pain signaling (long-lasting hypersensitivity).
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	GOmAb/Phosphorylated
Post Translational Modification Residue	Tyr-1101
NCBI Gene ID	1956

Product Images



Western blot image of human A431 cells untreated (lanes 1 & 3) or treated with EGF (100 ng/ml) for 5 min. The blot was probed with anti-EGFR (Tyr-1101) monoclonal antibody (lanes 1 & 2) or anti-EGFR (Cytoplasmic) monoclonal antibody (lanes 3 & 4).



Immunocytochemical labeling in A431 cells untreated or treated with EGF (100 ng/ml) for 5 min. The cells were labeled with mouse monoclonals anti-EGFR (EM1661) and anti-EGFR (Tyr-1101) (EM1991).