www.antibodiesinc.com
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530-758-4400

PRODUCT DATASHEET

Anti-EGFR (Ser-967), Phosphospecific Antibody

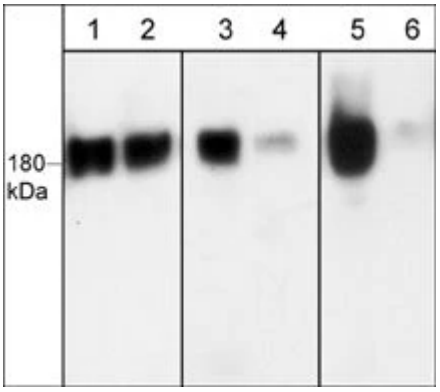
phosphosolutions ANTIBODIES THAT WORK

Product Details

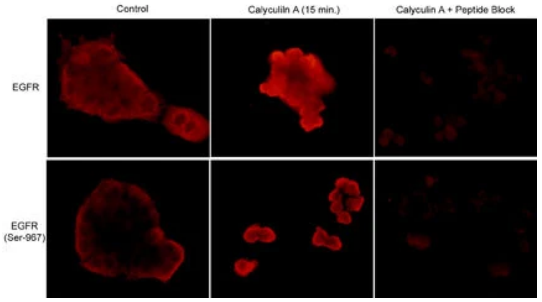
Available Variants	100 µL (SKU:EP1911)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	EGFR
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:200
Species Reactivity	Human, Mouse, Rat
Immunogen	Phospho-EGFR (Ser-967) synthetic peptide (coupled to KLH) corresponding to amino acid residues surrounding serine 967 of human EGFR (ErbB-1). This human EGFR sequence has high homology to rat and mouse EGFR, and low homology to other ErbB family members.
Specificity	This antibody was cross-adsorbed to unphosphorylated EGFR (Ser-967) coupled to agarose then affinity purified using phospho-EGFR (Ser-967) peptide (without carrier). The antibody detects a 180 kDa* protein on SDS-PAGE immunoblots of human A431 cells treated with Calyculin A, and does not detect this band after lambda phosphatase treatment.
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	Phosphorylated
Post Translational Modification Residue	Ser-967
NCBI Gene ID	1956

Product Images



Western blot image of human A431 cells treated with Calyculin A (100 nM) for 30 min. Blot lanes were untreated (lanes 1, 3, & 5) or treated with lambda phosphatase (lanes 2, 4, & 6) then were probed with anti-EGFR (a.a. 961-972) (lanes 1 & 2), anti-EGFR (Ser-967) (lanes 3 & 4), and anti-EGFR (Ser-1142) (lanes 5 & 6).



Immunocytochemical labeling in A431 cells untreated or treated with Calyculin A (50 nM) for 15 min. Cells were labeled with anti-EGFR (a.a. 961-972) or anti-EGFR (Ser-967) antibodies. The specificity of labeling was demonstrated for each antibody by blocking the signals with their respective blocking peptides, EGFR (a.a. 961-972) (EX1875) and phospho-EGFR (Ser-967) (EX1915).