

	<h1>Phospho-EGFR-T669 Rabbit pAb</h1>	E 2 5 3 0 0 2 5
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Swiss-Prot No.:	P00533
Altername:	EGFR
Storage/Stability:	Store at -20°C. Avoid freeze / thaw cycles.
Immunogen:	A phospho specific peptide corresponding to residues surrounding T669 of human EGFR
Purification:	Affinity purified
Reactivity:	Human
Other Names:	ERBB; HER1; mENA; ERBB1; PIG61; NISBD2
Cellular localization:	Cell membrane, Endoplasmic reticulum, Endosome, Golgi apparatus, Membrane, Nucleus, Secreted
Relevance:	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, amphiregulin, 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.

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	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. Plays a role in enhancing learning and memory performance .
Source:	Rabbit
Antibody type:	Polyclonal antibody
Isotype:	Rabbit IgG
Molecular Weight:	200kDa
Preservative:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Recommended Dilutions:	WB 1:500 - 1:2000; IP 1:50 - 1:100(Optimal dilutions should be determined by the end user)