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Product datasheet for AM00044PU-N

EGFR Non pTyr1197 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 20G3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	20G3
Applications:	ELISA, IF, IP, WB
Recommended Dilution:	ELISA (0.05 µg/ml). Western blot. Immunoprecipitation (1 - 10 µg per 10e6 vanadate treated A431 cells). Immunoflourescence (1-10 µg/ml).
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peptide conjugated to KLH
Specificity:	This antibody specifically recognizes non-activated EGF-receptor (dephosphorylated at Y1197) and is interacting with the 1197 - N A E Y L R V peptide motif. It does not interact with the activated EGF-receptor phosphorylated at Y1197.
Formulation:	PBS, 0.09 % Na-azide, PEG and Sucrose State: Purified State: Lyophilized Ig fraction
Reconstitution Method:	Restore with 1 ml H2O (15 min, RT).
Purification:	Subsequent thiophilic adsorption and size exclusion chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilised product upon arrival at -20 °C. Following reconstitution aliquot and store at 2 - 8 °C for up to three months or freeze in liquid nitrogen at -80 °C for longer. Avoid repeated freezing and thawing. Should this product contain a precipitate, we recommend centrifugation before use.
Stability:	Shelf life: One year from despatch.
Gene Name:	epidermal growth factor receptor

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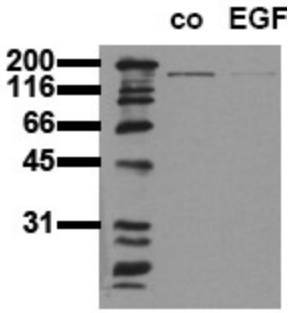
Database Link: Entrez Gene 1956 Human
P00533

Background: EGFR/erbB receptors are activated upon binding of EGF and EGF-related growth factors such as TGF alpha, beta-cellulin, Hb-EGF, HRG, or NRG. Binding of these ligands leads to receptor homo- and heterodimerization followed by autophosphorylation and activation of downstream signal transduction pathways (MAPK, PI3K/PKB, and STAT). In addition, EGFR becomes fully activated after phosphorylation of Y869 by src family kinases. Phosphorylation of Y1069 leads to association with cbl and subsequent receptor degradation. Phosphorylation of S1071 by CamKinase II leads to attenuation of kinase activity; phosphorylation of T678 (by PKC) and T693 (by MAPK, p38) interferes with receptor endocytosis/recycling.

Synonyms: Epidermal growth factor receptor, EGF Receptor, erbB-1, c-ErbB-1

Note: Mol. weight: 180 kDa.
Positive control included: Cell lysate from untreated HepG2.

Product images:



Phosphospecificity Whole cell extracts of control (co) and EGF stimulated (EGF) A431 tumor cells were applied to SDS-PAGE (ca. 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab EGFR-10G12 (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).