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Product datasheet for AM00042FC-N

EGFR pTyr1173 Mouse Monoclonal Antibody [Clone ID: 9H2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9H2
Applications:	IF
Recommended Dilution:	Immunocytochemistry: Use at 1-10 µg/ml. For ELISA, Immunoprecipitation and Immunoblotting, use Purified antibody (Cat.-No. AM00042PU-N) or Biotinylated antibody (Cat.-No. AM00042BT-N).
Reactivity:	Canine, Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to KLH. Epitope: Phospho-Tyr1197 N A E pY L R V
Specificity:	This antibody specifically interacts with the 1197 - N A E pY L R V motif corresponding to the major autophosphorylation site of Human EGFR. Antibody AM00042FC-N does not crossreact with the highly homologous pTyr1248 of acticated erbB2.
Formulation:	PBS containing 0.09% Sodium Azide/PEG and Sucrose. Label: FITC State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Purified from serum-free cell culture supernatant by Subsequent Thiophilic Adsorption and Size Exclusion Chromatography.
Conjugation:	FITC
Storage:	Store the antibody (aliquote in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Stability:	Shelf life: one year from despatch.

View online »

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