

## Monoclonal Antibody to EGFR / ERBB1 pTyr1173 - FITC

<b>Alternate names:</b>	EGF Receptor, Epidermal growth factor receptor, Proto-oncogene c-ErbB-1, Receptor tyrosine-protein kinase erbB-1, c-ErbB-1, erbB-1
<b>Catalog No.:</b>	AM00042FC-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">P00533</a>
<b>NCBI:</b>	<a href="#">NP_005219.2</a>
<b>GeneID:</b>	<a href="#">1956</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	9H2
<b>Immunogen:</b>	Phosphopeptide conjugated to KLH. Epitope: Phospho-Tyr1197 N A E pY L R V
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Purified from serum-free cell culture supernatant by Subsequent Thiophilic Adsorption and Size Exclusion Chromatography. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide/PEG and Sucrose. <b>Label:</b> FITC
<b>Applications:</b>	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). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**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 activated erbB2.

**Species:** Human, Mouse and Dog.

Other species not tested.

**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.

Shelf life: one year from despatch.

**Recommended  
Control Peptides:**

AM00042CP-N

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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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