

## Mouse Monoclonal Antibody to

### EGFR (phospho-Tyr 1173)

### clone 9H2

### FITC-labelled

**Order No.:** 0008-100FITC/EGFR-9H2

**Size (µg)** 100

**Lot No.:** 0008S

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02/260207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1	human, mouse, dog	ICC	180 kDa	none	phospho-Y1173 N A E pY L R V	phosphopeptide conjugated to KLH

#### Background and Specificity:

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 Y845 by src family kinases.

Phosphorylation of Y1045 leads to association with cbl and subsequent receptor degradation.

Phosphorylation of S1047 by CamKinase II leads to attenuation of kinase activity; phosphorylation of T654 (by PKC) and T669 (by MAPK, p38) interferes with receptor endocytosis/recycling.

**Mab EGFR-9H2** specifically interacts with the **1170 - N A E pY L R V** motif corresponding to the major autophosphorylation site of human EGFR. Mab 9H2 does not crossreact with the highly homologous pTyr1248 of activated erbB2.

#### Related Products

##### Blocking peptide for mab EGFR-9H2

#2006-100/EGFR pTyr1173

##### mab to EGFR (C-terminus)

#0007-100/EGFR-13G8

##### mab to EGFR (cytoplasmic domain)

#0168-100/EGFR-10F4

##### mab to EGFR (extracellular domain)

#0209-100/EGFR-20E12

##### mab to EGFR (aa 960 - 980)

#0199-100/EGFR-16F8

##### mab to EGFR (N-terminus)

#0201-100/EGFR-14C8

##### mab to phospho-EGFR (pY 845)

#0116-100/EGFR-12A3

##### mab to phospho-EGFR (pY1045)

#0136-100/EGFR-11C2

##### mab to phospho-EGFR (pY1068)

#0187-100/EGFR-15A2

##### mab to phospho-EGFR (pY 1086)

#0188-100/EGFR-8B8

##### mab to phospho-EGFR (pY 1148)

#0219-100/EGFR-10G12

##### mab to dephospho-EGFR (Y1173)

#0009-100/EGFR-20G3

##### mab to phospho-EGFR (pT669)

#0191-100/EGFR-5F10

##### mab to phospho-EGFR (pT654)

#0138-100/EGFR-3F2

##### mab to phospho-EGFR (pS1047)

#0107-100/EGFR-1H9

For monoclonal antibodies against erbB2, phospho-erbB2, erbB3 and erbB4, as well as against various EGFR downstream targets, please refer to our website at [www.nanotools.de](http://www.nanotools.de)

<b>Purification:</b>	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
<b>Formulation:</b>	liquid; 0.5 mg/ml in PBS/0.09% Na-Azide/PEG and Sucrose
<b>Reconstitution:</b>	
<b>Stability:</b>	Aliquote and freeze in liquid nitrogen; antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

**Avoid repeated freeze / thaw cycles.**

<b>Positive Control:</b>	none
<b>Immunoblotting:</b>	Please use unlabelled (#0008-100/EGFR-9H2) or biotinylated (0008-100BIOTIN/EGFR-9H2) antibody for this application

<b>Immunoprecipitation:</b>	Please use unlabelled or biotinylated antibody for this application
<b>Immunocytochemistry</b>	use at 1 - 10 µg/ml
<b>ELISA:</b>	Please use unlabelled or biotinylated antibody for this application

**All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.**