

Monoclonal Antibody to

EGFR (phospho-Tyr 1173)**clone 9H2**

Order No.: **0008-100/EGFR-9H2** Last Modified 17.02.2005

Size (µg) 100

Lot No.: 0008S

Host: Mouse

Isotype: IgG1 kappa

Immunogen: Phosphopeptide conjugate

Epitope: major autophosphorylation site (pY1173), phosphorylated

<u>Species Reactivity</u>	Human	Mouse	Rat	Dog
	yes	yes	yes	yes

Background & Specificity:

Binding of EGF to the extracellular domain of the EGF-receptor results in receptor dimerization and autophosphorylation on tyrosine residues, Y1173 being the major autophosphorylation site.

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. The antibody does not interact with the non-phosphorylated EGFR nor with unrelated Tyrosine-phosphorylated proteins. The phosphorylation site - specific monoclonal antibody EGFR-9H2 allows the detection and quantification of activated EGFR in crude cell extracts in Immunoblot, ELISA and Biosensor assay formats without the use of P32.

Related products:

anti-EGFR, clone 20G3 - specifically interacting with EGFR dephosphorylated at Tyrosine 1173 (N A E Y L R V)
 anti-EGFR, clone 11C2 - specifically interacting with EGFR phosphorylated at Tyrosine 1045 (L Q R pY S S D)
 anti-EGFR, clone 1H9 - specifically interacting with EGFR phosphorylated at Serine 1047 (R Y S pS D S T)
 anti-EGFR, clone 12A3 - specifically interacting with EGFR phosphorylated at Tyrosine 845 (E K E pY H A E)
 anti-EGFR, clone 3F2 - specifically interacting with EGFR phosphorylated at Threonine 654 (R K R pT L R R)
 anti-EGFR, clone 13G8 - specifically interacting with the C-terminus of EGFR (aa 1165-1186)

Purification: The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

Formulation: lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.

Reconstitution: Reconstitute with 1 ml H₂O (15 min, RT).

Stability: Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted 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

Positive Control: Cell lysate from vanadate-treated HepG2 cells (0812)

Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer CPPT: 0.5% (w/v) casein, 1% (w/v) PEG 4000, 1% (w/v) Polyvinylpyrrolidone (PVP), 0.1% (v/v) Tween 20, 10 mM Tris/HCl, pH 7.4, 150 mM NaCl

Immunoprecipitation use at 1 - 10 µg per 10⁶ vanadate treated A431 cells

Immunocytochemistry use at 0.1-1 µg/ml

ELISA: use at 0.05 µg/ml

All products are supplied for research and investigational use only. Not for use in humans.