

## Mouse Monoclonal Antibody to

# EGFR (phospho-Tyr 1045)

## clone 11C2

## biotinylated

**Order No.:** 0136-100BIOTIN/EGFR-11C2

**Size (µg)** 100

**Lot No.:** 0136S

01/260207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1	human, mouse	ELISA, WB, IP, Luminex	180 kDa	HepG2	Phosphotyrosine pY1045 L Q R pY S S D	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-11C2** specifically recognizes EGFR phosphorylated at Tyrosine 1045. It is suitable for Western Blot and ELISA applications.

### Related Products

#### Blocking peptide for mab EGFR-11C2

#2004-100/EGFR pTyr1045

#### 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 (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 phospho-EGFR (pY1173)

#0008-100/EGFR-9H2

#### 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; 0.25 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.
<b>Avoid repeated freeze / thaw cycles.</b>	
<b>Positive Control:</b>	#0812: Cell lysate from pervanadate-treated HepG2 cells
<b>Immunoblotting:</b>	0.5 µg/ml for HRPO/ECL detection <b>Recommended blocking buffer:</b> Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.
<b>Immunoprecipitation:</b>	use at 1 - 10 µg per 10 <sup>6</sup> pervanadate-treated A431 cells
<b>Immunocytochemistry:</b>	ND
<b>ELISA:</b>	use at 0.05 µg/ml

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