

Mouse Monoclonal Antibody to

EGFR (phospho-Tyr 1045)

clone 11C2

Order No.: 0136-100/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

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

Formulation: liquid; 0.1mg/ml in in PBS/0.09% Na-Azide/PEG and Sucrose/50% Glycerol

Reconstitution:

Stability: Aliquote and store at -20°C up to 1 year.

Avoid repeated freeze / thaw cycles.

Positive Control: #0812: Cell lysate from pervanadate-treated HepG2 cells

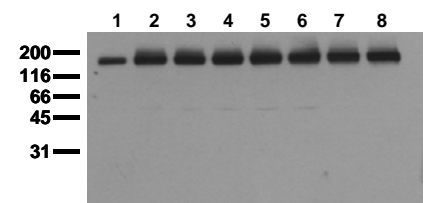
Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

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

Immunocytochemistry: ND

ELISA: use at 0.05 µg/ml

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



EGFR activation

Serum starved MDA-MB 468 cells were incubated with 10 ng/ml EGF for the indicated times. Whole cell lysates were prepared with lysis buffer V19 and separated by SDS-PAGE (ca 20.000 cells/lane). The immunoblot was probed with mab EGFR-11C2 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

lane 1: control; lane 2: 5 min EGF; lane 3: 15 min EGF; lane 4: 30 min EGF; lane 5: 1h EGF; lane 6: 2h EGF; lane 7: 4h EGF; lane 8: 8h EGF