Mouse Monoclonal Antibody to

EGFR (phospho-Tyr 845)

clone 12A3

Order No.: **0116-100/EGFR-12A3**

Size (µg) 100

Lot No.: 0116S

www.nanotools.de

orders & support:
email: info@nanotools.de
phone: +49-7641-455 670
fax: +49-7641-455 671

01/201005

Isotype:	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope:	Immunogen:
IgG1	Human, Mouse	ELISA, WB, IP, ICC, IHC (PS, FS)	180 kDa	HepG2	Phosphotyrosine 845 (E K E pY H A E)	Phosphopeptide conjugated to KLH

Background and Specificity:

Binding of EGF leads to autophosphorylation of the EGF Receptor at several tyrosine residues. In addition, EGF Receptor is phosphorylated by members of the src kinase family at different tyrosine residues, phosphotyrosine 845 in the activation loop being the major site (tyrosine 845 is no autophosphorylation site!). EGFR acquires its full kinase activity only upon autophosphorylation and phosphorylation at tyrosine 845.

Mab EGFR-12A3 specifically recognizes EGFR phosphorylated at Tyrosine 845 and detects EGFR activation after interaction with src kinases. The antibody is suitable for Western Blot, IP and ELISA applications. The antibody does not interact with the non-phosphorylated EGFR nor with unrelated Tyrosine-phosphorylated proteins.

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 H_2O (15 min, RT).

Stability: For long-term storage, freeze lyophilizate upon arrival (-20°C). 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 EGF-treated HepG2 cells (0813)

Immunoblotting: 1 µg/ml for HRPO/ECL detection
Recommended blocking buffer CPPT: 0.5% (w/v) casein (sodium salt), 1% (w/v) PEG 4000, 1% (w/v) Polyvinylpyrrolidone (PVP), 0.1% (v/v) Tween 20, 2 x PBS

Immunoprecipitation use at 1 - 10 µg per 10^6 vanadate treated A431 cells

Immunocytochemistry use at 1 - 10 µg/ml

ELISA: 0.1 µg/ml (protein ELISA); capture ELISA: N.D.

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

Related Products

Blocking peptide for mab EGFR-12A3
#2003-100/EGFR pTyr845

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)
#0206-100/EGFR-17F8

mab to EGFR (N-terminus)
#0201-100/EGFR-14C8

mab to phospho-EGFR (pY1173)
#0008-100/EGFR-9H2

mab to dephospho-EGFR (Y1173)
#0009-100/EGFR-20G3

mab to phospho-EGFR (pY1068)
#0187-100/EGFR-15A2

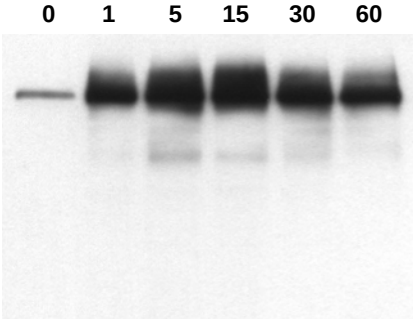
mab to phospho-EGFR (pY1045)
#0136-100/EGFR-11C2

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, and erbB3, as well as against various EGFR downstream targets, please refer to our website at www.nanotools.de



Immunoblot Analysis
Serum-starved HepG2 cells were treated with 10 ng/ml EGF for the indicated times (min). Cell lysates of approx. 20.000 cells/lane were probed with mab EGFR-12A3 at 0.5 µg/ml for 1h at 15-22°C and developed by ECL (exposure time: 30 sec).