

Mouse Monoclonal Antibody to

EGFR (phospho-Tyr 845)

clone 12A3

FITC-labelled

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

100 Size (µg) 0116S Lot No.:

www.nanotools.de

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02/230207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse	ICC	180 kDa	none	Phosphotyrosine 845 EKE pYHAE	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-12A3 specifically recognizes EGFR phosphorylated at Tyrosine 845 and detects EGFR activation after interaction with src kinases. Mab 12A3 does not crossreact with the highly homologues pTyr 877 of activated erbB2.

The antibody was purified from serum-free cell culture **Purification:**

supernatant by subsequent thiophilic adsorption and size

exclusion chromatography.

Formulation: liquid 0.5 mg/ml in PBS/0.09% Na-Azide/PEG and Sucrose

Reconstitution:

Stability: Aiquote 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

Positive Control: none

Please use unlabelled (#0116-100/EGFR-12A3) or biotinylated Immunoblotting:

(#0116-100BIOTIN/EGFR-12A3) antibody for this application.

Immunoprecipitation: Please use unlabelled (#0116-100/EGFR-12A3) or biotinylated

(#0116-100BIOTIN/EGFR-12A3) antibody for this application.

use at 1 - 10 µg/ml **Immunocytochemistry**

Please use unlabelled (#0116-100/EGFR-12A3) or biotinylated **ELISA:** (#0116-100BIOTIN/EGFR-12A3) antibody for this application.

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

mab to EGFR (C-terminus)

mab to EGFR (cytoplasmic domain) #0168-100/FGFR-10F

mab to EGFR (extracellular domain)

#0209-100/EGFR-20E12

mab to EGFR (aa 960 - 980) #0199-100/EGFR-16I

mab to EGFR (N-terminus)

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

mab to phospho-EGFR (pY1068)

#0187-100/EGFR-15A2

mab to phospho-EGFR (pY 1086)

mab to phospho-EGFR (pY 1148)

mab to phospho-EGFR (pY1173)

mab to dephospho-EGFR (Y1173)

#0009-100/EGFR-20G3

mab to phospho-EGFR (pT669)

mab to phospho-EGFR (pT654) #0138-100/EGFR-3F

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