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## Mouse Monoclonal Antibody to

## EGFR (phospho-Thr 654)

## clone 3F2

# biotinylated

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0138-100BIOTIN/EGFR-3F2 Order No.:

Size (µg) 100 0138S Lot No.:

04/260207F

Mol. Weight **Ref.Cell Line** Isotype **Species Reactivity Applications Epitope Immunogen** IgG1 human, mouse, rat, ELISA, WB, IP, 180 kDa HepG2 Phosphothreonine 654 phosphopeptide Luminex RKR pTLRR conjugated to KLH dog

#### **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-3F2 specifically recognizes EGFR phosphorylated at Threonine 654. The antibody is suitable for Western Blot and ELISA applications.

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: 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.

Avoid repeated freeze / thaw cycles.

#0817: Cell lysate from PMA-/pervanadate-treated HepG2 cells **Positive Control:** 

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 vanadate treated A431 cells

ND **Immunocytochemistry** 

use at 0.05 µg/ml ELISA:

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

### **Related Products**

mab to EGFR (C-terminus)

mab to EGFR (cytoplasmic domain)

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-140

mab to phospho-EGFR (pY 845)

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 (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