

Mouse Monoclonal Antibody to

EGFR (phospho-Thr 654)

clone 3F2

Order No.:

biotinylated

0138-100BIOTIN/EGFR-3F2



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| Size (µg) | | 100 | | | | 8 | |
|---|--------------------------|--|---|---------------|--------------------------|---|-------------------------------------|
| Lot No.: | | 0138S 88 | | | | 04/26020 | |
| Isotype | Species Reactivity | Applications | Mol. Weight | Ref.Cell Line | Epitope | 8 04/26020 | Immunogen |
| lgG1 | human, mouse, rat dog | | | HepG2 | Phosphothred RKR pTLF | | phosphopeptide conjugated to KLH |
| Background and Specificity: | | | | | | Related Pro | oducts |
| 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. | | | | | | 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 (extracellular domain) #0209-100/EGFR-20E12 mab to EGFR (extracellular domain) #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 (pY 1045) #0136-100/EGFR-11C2 mab to phospho-EGFR (pY1045) #0187-100/EGFR-15A2 mab to phospho-EGFR (pY 1068) #0188-100/EGFR-8B8 mab to phospho-EGFR (pY 1148) #0219-100/EGFR-10612 | |
| Purification | supe | e antibody was purified from serum-free cell culture ernatant by subsequent thiophilic adsorption and size lusion chromatography. | | | | 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 (pS1047) #0107-100/EGFR-1H9 | |
| Formulatio | | id; 0.5 mg/ml in PBS/0.09% Na-Azide/PEG and Sucrose | | | | | |
| Reconstitu Stability: | Aliqu froze | uote and freeze in liquid nitrogen; antibody can be stored en at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed uots may be stored at 4°C up to 3 months. | | | | For monoclonal antibodies against erbB2, phospho-erbB2, erbB3 and erbB4, as well as against various EGFR downstream targets, please re to our website at www.nanotools.de | |
| | Avo | Avoid repeated freeze / thaw cycles. | | | | | |
| Positive Co | ontrol: #081 | n PMA-/pervana | adate-treated HepG | 2 cells | | | |
| Immunoble | Rec | ommended bloc king and blot incu | /ml for HRPO/ECL detection <u>nmended blocking buffer:</u> Casein/Tween 20 based ng and blot incubation buffer, e.g. nanoTools product rea/02DT ar #2021 0000/20DT | | | | |

Immunoprecipitation: use at 1 - 10 µg per 10⁶ vanadate treated A431 cells ND Immunocytochemistry 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.

#3031-500/CPPT or #3031-3000/CPPT.

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