

Mouse Monoclonal Antibody to

EGFR (phospho-Thr 654)

clone 3F2

	Order No.:		0138-100/EGFR-3F2			000	
Size (μg) Lot No.:		100	03/26				
		0138S					
	Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	
	lgG1	human, mouse, rat dog	Luminex	180 kDa	HepG2	Phosphothreonine 654 R K R pT L R R	

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.

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 PBS/0.09% Na-Azide/PEG and Sucrose/50% Glycerol
Reconstitution:	
Stability:	Aliquote and store at -20°C for up to 1 year.
	Avoid repeated freeze / thaw cycles.
Positive Control:	#0817: Cell lysate from PMA-/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 μ g per 10 ⁶ vanadate 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.





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Immunogen

phosphopeptide

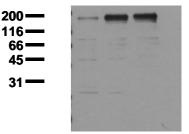
conjugated to KLH

03/260207F

Related Products mab to EGFR (C-terminus) #0007-100/EGFR-13G8 mab to EGFR (cytoplasmic domain) #0168-100/EGFR-1 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) #0116-100/EGFR-12A mab to phospho-EGFR (pY1045) #0136-100/EGFR-11C 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-10G1 mab to phospho-EGFR (pY1173) #0008-100/EGFR-9H 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

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

co PMA VH



Phosphospecificity

Whole cell extracts of control (co), stimulated (PMA) or pervanadate treated (VH) OVCAR-5 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab EGFR-3F2 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).