



EGFR (dephospho-Tyr 1173)

clone 20G3

0009-100/EGFR-20G3 Order No.:

100 Size (µg) 0009S Lot No.:



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02/260207F

	Species Reactivity Ap	olications Mol. Weigh	t Ref.Cell Line	Epitope	Immunogen	
IgG1 human, mouse ELISA, WB, IP, 180 kDa HepG2 dephospho-Y1173 peptide conjugated to KLH	•		HepG2	dephospho-Y1173	peptide 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-20G3 specifically recognizes non-activated EGF-receptor (dephosphorylated at Y1173) and is interacting with the 1170 - N A E Y L R V peptide motif. Mab EGFR-20G3 does not interact with the activated EGF-receptor phosphorylated at Y1173.

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

supernatant by subsequent thiophilic adsorption and size

exclusion chromatography.

lyophilized from 1 ml PBS / 0.09 % Na-azide / PEG and Formulation:

Sucrose.

Reconstitute with 1 ml H₂O (15 min, RT). Reconstitution:

For long-term storage, freeze lyophilizate upon arrival (-20°C). Stability:

> 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: #0811: Cell lysate from untreated HepG2

Immunoblotting: 1 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

use at 1-10 µg/ml **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/FGFR-20F12

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)

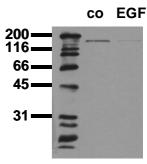
mab to phospho-EGFR (pT669) #0191-100/EGFR-5F10

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



Phosphospecificity

Whole cell extracts of control (co) and EGF stimulated (EGF) A431 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-10G12 (0.5 μ g/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec)