Mouse Monoclonal Antibody to

EGFR (dephospho-Tyr 1173)

clone 20G3 biotinylated

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Order No.: **0009-100BIOTIN/EGFR-20G3**
Size (µg) 100
Lot No.: 0009S

02/260207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse	ELISA, WB, IP, ICC, Luminex	180 kDa	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.

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

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 10^6 vanadate treated A431 cells

Immunocytochemistry use at 1-10 µg/ml

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.

Related Products

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 (aa 960 - 980)
#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 (pY1045)
#0136-100/EGFR-11C2
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#0187-100/EGFR-15A2
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mab to phospho-EGFR (pY1173)
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mab to phospho-EGFR (pT669)
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mab to phospho-EGFR (pT654)
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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