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Mouse Monoclonal Antibody to

EGFR (cytoplasmic domain)

clone 10F4

biotinylated

+49-40-85326022 or 0800-2466652 (D)

0168-100BIOTIN/EGFR-10F4 Order No.:

100 Size (µg) 0168S Lot No.:



Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse	WB	180 kDa	HepG2	cytoplasmic domain (aa 1140 - 1160)	peptide conjugated to hemocyanin

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-10F4 specifically recognizes the cytoplasmic domain of EGF receptor (aa 1165 -1186). Recognition is independent of the phosphorylation status.

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

supernatant by subsequent thiophilic adsorption and size

exclusion chromatography.

Formulation: liquid; 0.25 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.

#0811: Cell lysate from untreated 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: ND ND Immunocytochemistry: ND **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)

#0007-100/EGFR-13G8

mab to EGFR (extracellular domain)

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-12A3 mab to phospho-EGFR (pY1045)

mab to phospho-EGFR (pY1068) #0187-100/EGFR-15A

mab to phospho-EGFR (pY 1086)

#0188-100/EGFR-8B8

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)

#0191-100/EGFR-5F10

mab to phospho-EGFR (pT654)

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