

Mouse Monoclonal Antibody to

EGFR (phospho-Tyr 1148)

clone 10G12

Order No.: 0219-100/EGFR-10G12
Size (µg) 100
Lot No.: 0219S



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02/111207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG3	human	WB	180 kDa	HepG2	phospho-tyrosine 1148 N P D pY Q Q D	phosphopeptide conjugated to hemocyanin

Background and Specificity:

EGF Receptor (EGFR) and erbB2, erbB3, and ErbB4 are members of subclass I of receptor tyrosine kinases. 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-10G12 specifically recognizes EGFR phosphorylated at Tyrosine 1148.

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 (pY1173)**
#0008-100/EGFR-9H2
- mab to dephospho-EGFR (Y1173)**
#0009-100/EGFR-20G3
- mab to phospho-EGFR (pY1045)**
#0136-100/EGFR-11C2
- mab to phospho-EGFR (pY845)**
#0116-100/EGFR-12A3
- mab to phospho-EGFR (pY1068)**
#0187-100/EGFR-15A2
- mab to phospho-EGFR (pY 1086)**
#0188-100/EGFR-8B8
- mab to phospho-EGFR (pT669)**
#0191-100/EGFR-5F10
- mab to phospho-EGFR (pT654)**
#0138-100/EGFR-3F2
- 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

Purification: The antibody was purified from serum-free cell culture supernatant by subsequent ultrafiltration and size exclusion chromatography.

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

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

Stability: Aliquote and store at -20°C up to 1 year.

Avoid repeated freeze / thaw cycles.

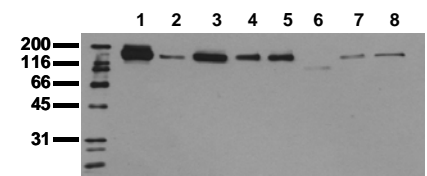
Positive Control: #0813: Cell lysate from EGF-treated HepG2 cells

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: ND

Immunocytochemistry: ND

ELISA: ND



Detection of endogenous EGFR

Whole cell lysates of EGF-stimulated tumor cells (20,000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab EGFR-10G12 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

lane 1: A431; lane 2: A549; lane 3: SKOV3; lane 4: OVCAR5;
 lane 5: HaCaT; lane 6: PC3; lane 7: HeLa; lane 8: HepG2

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.