

Mouse Monoclonal Antibody to

EGFR (phospho-Thr 669)

clone 5F10

Order No.: 0191-100/EGFR-5F10
Size (µg) 100
Lot No.: 0191S

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03/260207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human	WB, ELISA	180 kDa	A431	phosphothreonine 669 E P L p T P S G	phosphopeptide 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-5F10 specifically recognizes EGFR phosphorylated at Threonine 669. The antibody is suitable for Western Blot and ELISA applications.

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
- 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-10G12
- mab to phospho-EGFR (pY1173)**
#0008-100/EGFR-9H2
- mab to dephospho-EGFR (Y1173)**
#0009-100/EGFR-20G3
- 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 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 up to 1 year

Avoid repeated freeze / thaw cycles.

Positive Control: #0833: Cell lysate from PMA-/pervanadate-treated A431 cells

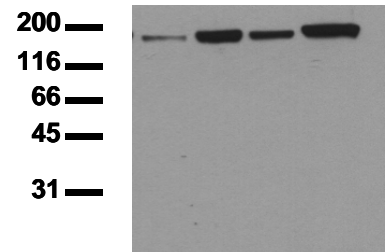
Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

Immunoprecipitation: ND

Immunocytochemistry: ND

ELISA: use at 0.1 µg/ml

co PMA So VH



Phosphospecificity

Whole cell extracts of control (co), PMA, Sorbit (So) or pervanadate treated (VH) SKOV-3 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 - 5F10 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

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