BIOMOL GmbH
Waidmannstr. 35
22769 Hamburg
info@biomol.de
www.biomol.de
Phone: +49-40-8532600 or 0800-2466651 (D)
Fax: +49-40-85326022 or 0800-2466652 (D)

Mouse Monoclonal Antibody to

EGFR (phospho-Thr 669)

clone 5F10

Order No.: **0191-100/EGFR-5F10**

Size (µg) 100

Lot No.: 0191S

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 pT 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.

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

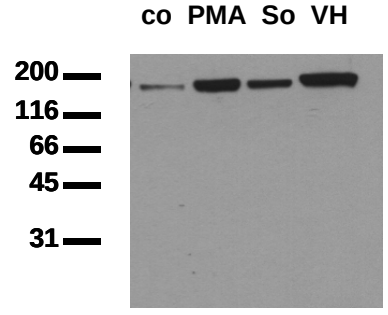
ELISA: use at 0.1 µg/ml

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
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



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).