Mouse Monoclonal Antibody to

Fax:





EGFR (phospho-Tyr 1148)

clone 10G12

0219-100/EGFR-10G12

Size (µg) Lot No.:

Order No.:

100 0219S



02/111207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope		Immunogen	
lgG3	human	WB	180 kDa	HepG2	phospho-tyrosine 1148 NPD pYQQD		phosphopeptide conjugated to hemocyanin	
Background and Specificity:							Related Products	
EGF Receptor (EGFR) and erbB2, erbB3, and ErbB4 are members of subclass I of receptor							mab to EGFR (C-terminus)	

BIOMOL GmbH Waidmannstr. 35

22769 Hamburg info@biomol.de

www.biomol.de

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.

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 <u>Recommended blocking buffer:</u> Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.				
Immunoprecipitation:	ND				
	ND				

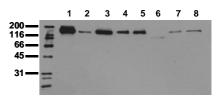
Immunocytochemistry: ND

ND

ELISA:

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

#0007-100/EGFR-13G8 mab to EGFR (cytoplasmic domain) #0168-100/EGFR-1 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-14C mab to phospho-EGFR (pY1173) #0008-100/EGFR-9H mab to dephospho-EGFR (Y1173) #0009-100/EGER-20 mab to phospho-EGFR (pY1045) #0136-100/EGFR-11C2 mab to phospho-EGFR (pY845) #0116-100/EGFR-12A mab to phospho-EGFR (pY1068) #0187-100/EGFR-15A mab to phospho-EGFR (pY 1086) #0188-100/EGFR-8B 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



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 $\mu\text{g}/\,\text{ml})$ 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