

Mouse Monoclonal Antibody to

EGFR (phospho-Tyr 1068)

clone 15A2

biotinylated

Order No.: 0187-100BIOTIN/EGFR-15A2

Size (µg) 100

Lot No.: 0187S

03/260207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1	human, mouse, rat, dog	ELISA, WB, IP, Luminex	180 kDa	HepG2	Phosphotyrosine 1068 V P E pY I N Q	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-15A2 specifically recognizes EGFR phosphorylated at Tyrosine 1068. The antibody is suitable for Western Blot and ELISA applications. Mab 15A2 does not crossreact with the highly homologous pTyr 1139 of activated erbB2.

Related Products

Blocking peptide for mab EGFR-15A2

#2005-100/EGFR pTyr1068

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 (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 (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:	liquid; 0.5 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.

Positive Control:	#0812: HepG2 pervanadate-treated
Immunoblotting:	1 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:	use at 1 - 10 µg per 10 ⁶ pervanadate-treated A431 cells
Immunocytochemistry	ND
ELISA:	0.1 µg/ml (protein ELISA); capture ELISA: N.D.

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