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# **Mouse Monoclonal Antibody to**

# EGFR (phospho-Tyr 1068)

# clone 15A2

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

Size (µg) 100 0187S Lot No.:

03/260207F

Mol. Weight Isotype **Species Reactivity Applications Ref.Cell Line Epitope Immunogen** human, mouse, rat, ELISA, WB, IP 180 kDa IgG1 HepG2 Phosphotyrosine 1068 phosphopeptide VPE pYINQ Luminex conjugated to dog 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 doest not crossreact with the highly homologoes pTyr 1139 of activated erbB2.

The antibody was purified from serum-free cell culture **Purification:** 

supernatant by subsequent ultrafiltration and size exclusion

chromatography.

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

Sucrose.

Reconstitute with 1 ml H<sub>2</sub>O (15 min, RT). Reconstitution:

For long-term storage, freeze lyophilizate upon arrival (-20°C). Stability:

> Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted 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: Cell lysate from pervanadate-treated HepG2 cells

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<sup>6</sup> pervanadate-treated A431 cells

**Immunocytochemistry** 

ND

0.1 µg/ml (protein ELISA); capture ELISA: N.D. ELISA:

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

## **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-101

mab to EGFR (extracellular domain)

mab to EGFR (aa 960 - 980)

mab to EGFR (N-terminus) #0201-100/EGFR-1

mab to phospho-EGFR (pY 845)

#0116-100/EGFR-12A3

mab to phospho-EGFR (pY1045) #0136-100/EGFR-11C

mab to phospho-EGFR (pY 1086)

mab to phospho-EGFR (pY 1148)

#0219-100/EGFR-10G

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)

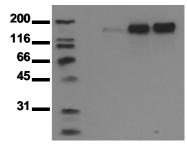
#0138-100/FGFR-3F2

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

### co EGF VH



#### Phosphospecificity

Whole cell extracts of control (co), EGF stimulated (EGF) or pervanadate treated (VH) SKOV3 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-15A2 (0.5  $\mu g/$  ml) for 1h at RT and developed by ECL (exp. time: 30 sec).