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### **Mouse Monoclonal Antibody to**

## EGFR (extracellular domain)

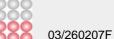
## clone 20E12

# biotinylated

+49-40-85326022 or 0800-2466652 (D)

0209-100BIOTIN/EGFR-20E12 Order No.:

100 Size (µg) 0209S Lot No.:



Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
lgG2a	human	WB	180 kDa	A431	extracellular domain	peptide conjugated to hemocyanin

### **Background and Specificity:**

EGF Receptor (EGFR) and erbB2, erbB3, and ErbB4 are members of subclass I of receptor 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-20E12 pecifically recognizes the extracellular domain of EGF receptor.

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

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.

#0831: Cell lysate from untreated A431 cells **Positive Control:** 

0.5 µg/ml for HRPO/ECL detection Immunoblotting:

> 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 ND Immunocytochemistry: ND ELISA:

> 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)

mab to EGFR (aa 960 - 980)

#0199-100/EGFR-16F8

mab to EGFR (N-terminus)

#0201-100/EGFR-14C

mab to phospho-EGFR (pY 845) #0116-100/EGFR-12A3

mab to phospho-EGFR (pY1045)

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)

mab to phospho-EGFR (pY1173)

mab to dephospho-EGFR (Y1173)

#0009-100/EGFR-20G3 mab to phospho-EGFR (pT669)

#0191-100/EGFR-5F10

mab to phospho-EGFR (pT654)

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