

Mouse Monoclonal Antibody to

EGFR (C-Terminus)

clone 13G8

Order No.: 0007-100/EGFR-13G8

Size (µg) 100

Lot No.: 0007S



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02/260207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse	ELISA, WB, IP, ICC, Luminex	180 kDa	HepG2	C-terminus (aa 1165 - 1186), independent of phosphorylation status	peptide conjugated to KLH

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-13G8 specifically recognizes the C-terminus of EGF receptor (aa 1165 - 1186). Recognition is independent of the phosphorylation status at tyrosine 1173.

Related Products

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 (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 thiophilic adsorption 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:

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

#0811: Cell lysate from untreated 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:

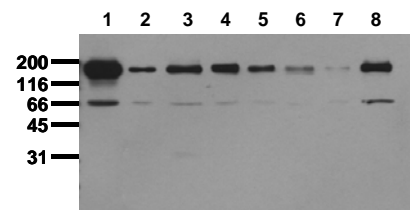
use at 1 - 10 µg per 10⁶ pervanadate-treated A431 cells

Immunocytochemistry

use at 1 - 10 µg/ml

ELISA:

use at 0.05 µg/ml



Detection of endogenous EGFR

Whole cell lysates of serum starved 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-13G8 (0.5 µg/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

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