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Ref.Cell Line

A431



Mouse Monoclonal Antibody to

erbB2 (phospho-Thr 686)

clone 7F8

Isotype

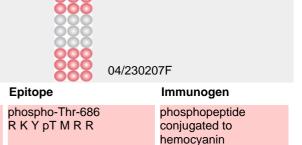
IgG1

Order No.: 0182-100/erbB2-7F8

Size (μg) 100 Lot No.: 0182S

Species Reactivity

human, mouse, dog



Background and Specificity:

ErbB2 is a member of the EGFR/erbB-receptor tyrosine kinase family. Dysregulation of erbB2 and/or activation of downstream signaling pathways has been implicated in many human cancers. ErbB2 is activated upon ligand dependent heterodimerization with EGFR or erbB4. ErbB2 homodimers are not favored due to the lack of an erbB2 specific extracellular ligand. Heterodimerization with EGFR or erbB4 leads to activation of the intrinsic tyrosine kinase activity of EGFR or erbB4 resulting in phosphorylation of multiple tyrosine residues within the erbB2 intracellular domain: Tyr 1023, Tyr 1112, Tyr 1139, Tyr 1196, Tyr 1222, and Tyr 1248. Transphosphorylation via src family kinases leads to phosphorylation of Tyr 877, via PKC of Thr 686, via CamKinase2 of Ser 1113. Phosphorylation of Thr 686 and Ser 1113 interferes with erbB2 endocytosis and degradation.

Applications

Mab erbB2-7F8 specifically recognizes human erbB2 phosphorylated at Thr 686.

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

supernatant by subsequent ultrafiltration and size exclusion

Mol. Weight

185 kDa

chromatography.

Formulation: liquid; 0.1mg/ml in in PBS/0.09% Na-Azide/PEG and

Sucrose/50% Glycerol

Reconstitution:

Stability: Aliquote and store at -20°C up to 1 year.

Avoid repeated freeze / thaw cycles.

Positive Control: #0833: Cell lysate from PMA-/pervanadate-treated A431 cells

Immunoblotting: 0.5 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:NDImmunocytochemistryNDELISA:ND

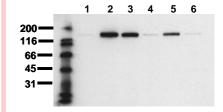
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Related Products

mab to erbB2 (aa 1240-1260) #0192-100/erBb2-19D2 mab to erbB2 (intracellular domain; aa 860-880) #0222-100/erbB2-24B5 mab to erbB2 (phospho-Ser 1113) #0139-100/erbB2-9E1 mab to erbB2 (phospho-Tyr 1112) #0216-100/erbB2-19G mab to erbB2 (phospho-Tyr 1248; crossreacts with EGFR) #0221-100/erbB2-6G7 mab to erbB3 (aa1250-1270) #0237-100/erbB3-5A1 mab to erbB3 (C-terminus) #0141-100/erbB3-11A4 mab to erbB4 (aa1230-1250) #0228-100/erbB4-6C5 mab to erbB4 (pospho-Tyr 1242)

For monoclonal antibodies against EGFR and downstream targets, please refer to our website at www.nanotools.de

#0229-100/erbB4-4C6



erbB2 Transactivation

Serum starved A431 cells were treated for 15min as indicated . Whole cell lysates were separated by SDS-PAGE (ca 20.000 cells/lane). The immunoblot was probed with mab erbB2-7F8 (0.5 μ g/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

lane 1: control; lane 2: PMA; lane 3: LPA; lane 4: Ceramide; lane 5: Bradykinin; lane 6: Bombesin