Mouse Monoclonal Antibody to

erbB2/Her2 (phospho-Tyr 1248)

clone 6G7

Order No.: **0221-100/erbB2-6G7**

Size (µg) 100

Lot No.: 0221S

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01/230207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human	WB	185 kDa	SKOV-3	phospho-Tyr 1248 N P E pY L G L	phosphopeptide conjugated to hemocyanin

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.

Mab erbB2-6G7 recognizes erbB2 phosphorylated at tyrosine 1248 at 185 kDa and might crossreact with EGFR.

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/erbB2-9E10
mab to erbB2 (phospho-Thr 686)
#0182-100/erbB2-7F8
mab to erbB2 (phospho-Tyr 1112)
#0216-100/erbB2-19G5
mab to erbB3 (aa1250-1270)
#0237-100/erbB3-5A12
mab to erbB3 (C-terminus)
#0141-100/erbB3-11A4
mab to erbB4 (aa1230-1250)
#0228-100/erbB4-6C5
mab to erbB4 (pospho-Tyr 1242)
#0229-100/erbB4-4C6

For monoclonal antibodies against EGFR and 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: lyophilized from 1 ml PBS / 0.09 % Na-azide / PEG and Sucrose.

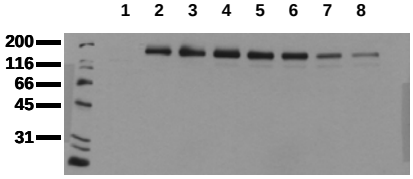
Reconstitution: Reconstitute with 1 ml H_2O (15 min, RT).

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: #0992: Cell lysate from pervanadate-treated SKOV-3 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.



erbB2 activation

Serum starved OVCAR-5 cells were incubated with 10 ng/ml EGF for the indicated times. Whole cell lysates were prepared with lysis buffer V19 and separated by SDS-PAGE (ca 20.000 cells/lane). The immunoblot was probed with mab erbB2 - 6G7 (0.5 µg/ ml) for 1h at RTand developed by ECL (exp. time: 30 sec).

lane 1: control; lane 2: 5 min EGF; lane 3: 15 min EGF; lane 4: 30 min EGF; lane 5: 1h EGF;lane 6; 2h EGF; lane 7: 4h EGF; lane 8: 8h EGF

Immunoprecipitation: ND

Immunocytochemistry ND

ELISA: ND

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