BIOMOL GmbH Waidmannstr, 35 22769 Hamburg info@biomol.de www.biomol.de



Phone: +49-40-8532600 or 0800-2466651 (D) +49-40-85326022 or 0800-2466652 (D)



Mouse Monoclonal Antibody to

erbB2 (aa 1240-1260)

clone 19D2

0192-100/erbB2-19D2 Order No.:

100 Size (µg) 0192S Lot No.:

						02,20020
Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
lgG1	human, mouse, dog	WB	185 kDa	SKOV-3	aa 1240 - 1260	peptide 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 erbB2-19D2 specifically recognizes erbB2 at 185 kDa.

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.

Reconstitute with 1 ml H₂O (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.

#0991: Cell lysate from untreated SKOV-3 cells **Positive Control:**

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: 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

02/230207F

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)

mab to erbB2 (phospho-Tyr 1112) #0216-100/erbB2-190

mab to erbB2 (phospho-Tyr 1248;

crossreacts with EGFR) #0221-100/erbB2-6G7

mab to erbB3 (aa1250-1270) #0237-100/erbB3-5A1

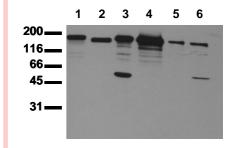
mab to erbB3 (C-terminus)

#0141-100/erbB3-11A4 mab to erbB4 (aa1230-1250)

#0228-100/erbB4-6C5 mab to erbB4 (pospho-Tyr 1242)

#0229-100/erbB4-4C6

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



Detection of endogenous erbB2

Whole cell extracts 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 erbB2-19D2 (0.5 μ g/ ml) for 1h at RT and developed by ECL

lane 1: MDA-MB 231; lane 2: MDA-MB 468; lane 3: MCF-7; lane 4: T47D; lane 5: SW480; lane 6: SW620