

Product datasheet for **AM00051PU-N**

Her2 (ERBB2) pSer1113 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 9E10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9E10
Applications:	ELISA, IF, WB
Recommended Dilution:	ELISA: Use at 0.1 µg/ml Immunoblotting: 0.5 µg/ml for HRPO/ECL detection. <i>Recommended blocking buffer:</i> Casein/Tween 20 based blocking and blot incubation buffer AS00002BU-N or AS00002BU-L. Immunocytochemistry: Use 1-10 µg/ml <i>Included Positive Control:</i> Cell lysate from untreated pervanadate-treated A431 cells (See Protocols for more details).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to KLH. Epitope: Phospho-Serine 1113
Specificity:	This antibody specifically recognizes erbB2 phosphorylated at Serine 1113 at 185 kDa.
Formulation:	1 ml PBS containing 0.09% Sodium Azide/PEG and Sucrose. State: Purified State: Lyophilized purified IgG fraction.
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Subsequent Thiophilic and Size Exclusion Chromatography.
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Stability:	Shelf life: one year from despatch.



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Gene Name: erb-b2 receptor tyrosine kinase 2

Database Link: [Entrez Gene 2064 Human P04626](#)

Background: ErbB2 is a member of the EGFR/erbB-receptor tyrosine kinase family. 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 erbB2 at serine 1113 has been correlated with erbB2 overexpression and a poor prognosis. Thus the phosphorylation status of serine 1113 in erbB2 represents a novel and informative biomarker of cancer cell biology and tumor behavior. (Mol. Cell Biochem. 218: 47-54, 2001).

Synonyms: HER-2, NEU, p185erbB2, NGL, c-erbB-2, MNL19

Note: **Mol. weight:** 185 kDa.

Protocol: **Positive Control Provided.**

Cell lysate from A 431 pervanadate treated

Description: Cell lysate from pervanadate-treated A431 cells, epidermoid carcinoma (Human)

Format: Lyophilized cell lysate from serum starved A431 cells.

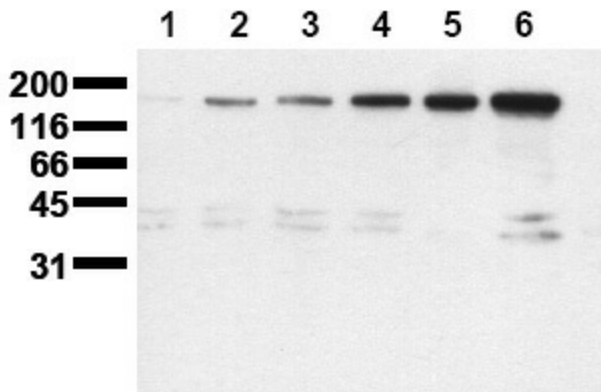
Reconstitution: Restore by addition of 200 µl H₂O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Storage: Aliquote and store frozen.
Avoid repeated freeze/thaw cycles.

Application: The positive control cell lysate is recommended for immunoblot applications. 20 µl of positive control cell lysate correspond to ca. 80.000 cells. Use 20 µl / lane (mini gel) for HRPO/ECL detection of the target proteins.

Please note: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation.

Product images:



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 - 9E10 (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). lane 1: control; lane 2: TGFbeta; lane 3: Bradykinin; lane 4: Pervanadate; lane 5: Anisomycin; lane 6: PMA