

## Product datasheet for **AM00051BT-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:	<b>ELISA:</b> Use at 0.1 µg/ml <b>Immunoblotting:</b> 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. <b>Immunocytochemistry:</b> 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. <b>Epitope:</b> Phospho-Serine 1113
Specificity:	Recognizes specifically ErbB2 phosphorylated at Serine 1113 at 185 kDa.
Formulation:	PBS containing 0.09% Sodium Azide/PEG and Sucrose. Label: Biotin State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Subsequent Thiophilic and Size Exclusion Chromatography.
Conjugation:	Biotin
Storage:	Aliquote and freeze in liquid nitrogen 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.
Gene Name:	erb-b2 receptor tyrosine kinase 2



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Database Link:	<a href="#">Entrez Gene 2064 Human P04626</a>
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:	<b>Mol. weight:</b> 185 kDa.  Protocol: <b>Positive Control Provided.</b> <b>Cell lysate from A 431 pervanadate treated</b>  <b>Description:</b> Cell lysate from pervanadate-treated A431 cells, epidermoid carcinoma (Human)  <b>Format:</b> Lyophilized cell lysate from serum starved A431 cells.  <b>Reconstitution:</b> Restore by addition of 200 µl H <sub>2</sub> O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.  <b>Storage:</b> Aliquote and store frozen. Avoid repeated freeze/thaw cycles.  <b>Application:</b> 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. <b>Please note:</b> The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation.
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Adherens junction, Bladder cancer, Calcium signaling pathway, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer