

## Product datasheet for **AM00050FC-N**

### Her2 (ERBB2) pTyr1112 Mouse Monoclonal Antibody [Clone ID: 19G5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	19G5
Applications:	IF
Recommended Dilution:	<b>Immunocytochemistry:</b> 5 µg/ml. Use AM00050PU-N and AM00050BT-N for ELISA and Immunoblotting Applications.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH.
Specificity:	Specifically recognizes erbB2 phosphorylated at Tyrosine 1112 at 185 kDa.
Formulation:	PBS, 0.09% Sodium Azide/PEG and Sucrose. Label: FITC State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Subsequent Ultrafiltration and Size Exclusion Chromatography.
Conjugation:	FITC
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
Database Link:	<u><a href="#">Entrez Gene 13866 Mouse</a></u> <u><a href="#">Entrez Gene 24337 Rat</a></u> <u><a href="#">Entrez Gene 2064 Human P04626</a></u>



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<b>Background:</b>	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.
<b>Synonyms:</b>	HER-2, NEU, p185erbB2, NGL, c-erbB-2, MNL19
<b>Note:</b>	<b>Mol. weight:</b> 185 kDa.
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	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