

Product datasheet for **AM33014PU-N**

Her2 (ERBB2) (1242-1255) Mouse Monoclonal Antibody [Clone ID: 3B5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3B5
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	Immunoblotting. Immunoprecipitation. Flow Cytometry. Immunocytochemistry. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: Antigen retrieval by boiling in 10mM citrate buffer pH 6.0 is recommended. <i>Recommended Dilutions:</i> 1/100-1/500 for Immunohistochemistry and 1/250-1/1000 for Immunoblotting applications.
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide TAENPEYLGLDVPV corresponding to amino acid residues 1242-1255 of the C-terminus of the Human c-erbB-2/HER-2/neu protein.
Specificity:	3B5 reacts equally well with the wild type as well as the mutant (oncogenic) form of the c-erbB-2/HER-2/neu protein, but preferentially recognizes the unphosphorylated form of this protein.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles.



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Stability: Shelf life: One year from despatch.

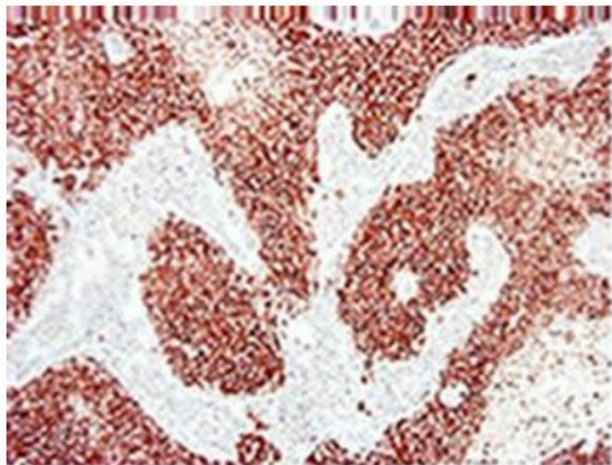
Gene Name: erb-b2 receptor tyrosine kinase 2

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

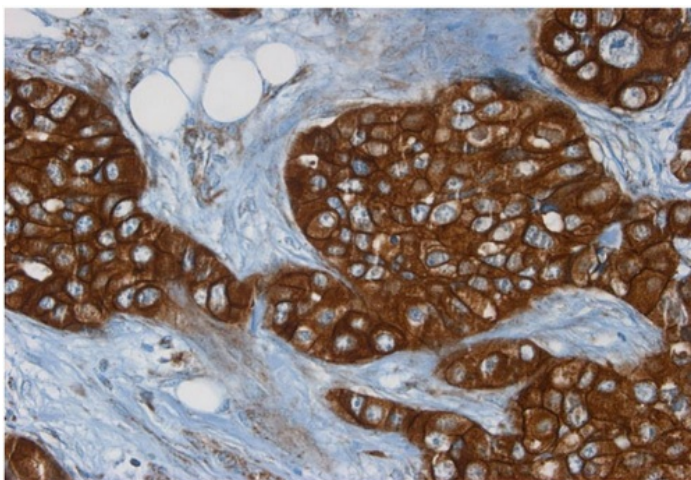
Background: C-erbB-2 (erythroblastosis oncogene B), also known as HER2 (Human Epidermal Growth Factor Receptor 2), or Neu, CD340 and p185 is a protein that in humans is encoded by the ERBB2 gene. Amplification or overexpression of this gene has been shown to play an important role in the pathogenesis and progression of certain aggressive types of breast cancer, as well as many other epithelial malignancies and brain tumors. In recent years it has become an important biomarker and target of therapy for disease. ERBB2 is a known proto-oncogene located at the long arm of human chromosome 17 (17q21-q22). The oncogene was found to code for EGFR. Gene cloning showed that HER2, Neu and ErbB-2 are all encoded by the same gene. The ErbB family is composed of plasma membrane-bound receptor tyrosine kinases, that contain an extracellular ligand binding domain, a transmembrane domain and an intracellular domain that can interact with a multitude of signaling molecules. HER2 can heterodimerise with any of the other three receptors and is considered to be the preferred dimerisation partner of the other ErbB receptors. Dimerisation results in the autophosphorylation of tyrosine residues within the cytoplasmic domain of the receptors and initiates a variety of signaling pathways.

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

Product images:



Immunohistochemistry on paraffin section of Human breast carcinoma



Immunohistochemistry on paraffin section of Human Mamma tumor Her2Neu +