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Mouse anti Neu-Oncogen (C-erb B2)

Catalogue number: **MUB1319P**

Clone	3B5
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human Monkey Mouse Rat
Application	Immunoblotting Immunohistochemistry (frozen) Immunohistochemistry (paraffin) Immunoprecipitation

Distributors

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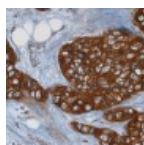
Background

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

1_MUB1319 Figure 1
Immunohistochemistry on paraffin section of human breast carcinoma



2_MUB1319 Figure 2
Immunohistochemistry on paraffin section of human Mamma tumor Her2Neu +



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.

Source

3B5 is a Mouse monoclonal IgG1 antibody derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with a synthetic peptide TAENPEYLGLDVPV corresponding to amino acid residues 1242-1255 of the C-terminus of the Human c-erbB-2/HER-2/neu protein. This sequence is identical in Rat neu protein.

Product

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

3B5 is useful for immunohistochemistry on frozen and paraffin-embedded tissues, immunocytochemistry, flow cytometry, immunoprecipitation and immunoblotting. Optimal antibody dilution should be determined by titration. Recommended range is 1:100 – 1:500 for immunohistochemistry and 1:250 – 1:1000 for immunoblotting applications. For application on paraffin embedded tissue antigen retrieval by boiling in 10mM citrate buffer pH 6.0 is recommended.

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.

Storage

Store at 4°C, or in small aliquots at -20°C.

References

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2. De Potter, C.R., Van Daele, S., Van de Vijver, M.J., Pauwels, C., Maertens, G., De Boever, J., Vandekerckhove, D. and Roels, H. (1989). The expression of the neu oncogene product in breast lesions and in normal fetal and adult Human tissues. *Histopathology* 15, 351-62.

3. De Potter, C.R., Quatacker, J., Maertens, G., Van Daele, S., Pauwels, C., Verhofstede, C., Eechaute, W. and Roels, H. (1989). The subcellular localization of the neu protein in Human normal and neoplastic cells. *Int J Cancer* 44, 969-74.
4. Van Leeuwen, F., Van de Vijver, M.J., Lomans, J., Van Deemter, L., Jenster, G., Akiyama, T., Yamamoto, T. and Nusse, R. (1990). Mutation of the Human neu protein facilitates down-modulation by monoclonal antibodies. *Oncogene*. 5, 497-503.
6. Singleton, T.P., Niehans, G.A., Gu, F., Litz, C.E., Hagen, K., Qiu, Q., Kiang, D.T. and Strickler, J.G. (1992). Detection of c-erbB-2 activation in paraffin-embedded tissue by immunohistochemistry. *Hum Pathol*. 23, 1141-50.
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Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.