c-erbB-2 / HER-2 / neu Ab-1 (21N)

Rabbit Polyclonal Antibody
Cat. #RB-103-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 1.0mg/ml) (Purified Ab with BSA and Azide)
Cat. #RB-103-P1ABX or -PABX (0.5ml or 1.0ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #RB-103-PCS (5 Slides) (Positive Control for Histology)
Cat. #RB-103-PCL (0.1ml) (Positive Control for Western Blot)
Cat. #PP-103 (Immunizing peptide; 1.0ml at 200µg/ml)

Description: c-erbB-2, second member (c-erbB-2/HER-2/neu) of the c-erbB family is a receptor tyrosine kinase. It exhibits extracellular domains with two cysteine-rich sequences, and a cytoplasmic tyrosine kinase domain flanked by large hydrophilic tails that carry several tyrosine autophosphorylation sites. Approximately 25% of primary breast and ovarian tumors were found to overexpress the protein.

Comments: Polyclonal Ab-1 and monoclonal Ab-15 are raised against similar synthetic peptides. Both the Abs react equally well with wild and mutant (oncogenic) form c-erbB-2 protein. For studies on murine neu protein, immunoprecipitate with Ab-9 or Ab-15 and Western blot with Ab-1 or vice versa.

Mol. Wt. of Antigen: 185kDa

Epitope: C-terminal

Species Reactivity: Human,1 Monkey,1 Rat,1 and Mouse.1 Others-not tested.

Designation: 21N

Immunogen: Synthetic peptide derived from C-terminus of human c-erbB-2/HER-2 protein.1 This sequence is identical in rat neu protein.

Applications and Suggested Dilutions:
- Western Blotting (5-10µg/ml for 2hrs at RT)
- Immunoprecipitation1 (Use Protein A)
  (Ab at 10µg/mg protein lysate)
- Immunohistology (Formalin/paraffin)
  (Ab 2.5-5.0µg/ml for 30 min at RT)

*Staining of formalin-fixed tissues requires boiling tissue sections in 10mM PBS, pH 6.0, (Cat. #AP-903), for 10-20 min followed by cooling at RT for 20 min.

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: SKBR-3 or T47D cells or breast carcinomas.

Cellular Localization: Cell membrane

Supplied As: Total IgG purified from rabbit antiserum by Protein A chromatography. Prepared at 1mg/ml in 10mM PBS, pH 7.4, with 0.2% BSA & 0.09% azide. Also available without BSA and azide at 1mg/ml.

Storage and Stability: Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Key References:

Limitations and Warranty:
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. NeoMarkers makes no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:
This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only
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Additional Key References:
1. Gasparini G; Gullick WJ; Maluta S; Palma PD; Caffo O; Leonardi E; Boracchi P; Pozza F; Lemoine NR; Bevilacqua P. c-erbB-3 and c-erbB-2 protein expression in node-negative breast carcinoma—an immunocytochemical study. European Journal of Cancer, 1994, 30A(1):16-22.


5. Allred DC; Clark GM; Molina R; Tandon AK; Schmitt SJ; Gilchrist KW; Osborne CK; Tormey DC; McGuire WL. Overexpression of HER-2/neu and its relationship with other prognostic factors change during the progression of in situ to invasive breast cancer. Human Pathology, 1992, 23(9):974-9.

6. Allred DC; Clark GM; Tandon AK; Molina R; Tormey DC; Osborne CK; Gilchrist KW; Mansour EG; Abeloff M; Eudey L; et al. HER-2/neu in node-negative breast cancer: prognostic significance of overexpression influenced by the presence of in situ carcinoma. Journal of Clinical Oncology, 1992, 10(4):599-605.

7. Gasparini G; Gullick WJ; Bevilacqua P; Sainsbury JR; Meli S; Boracchi P; Testolin A; La Malfa G; Pozza F. Human breast cancer: prognostic significance of the c-erbB-2 oncoprotein compared with epidermal growth factor receptor, DNA ploidy, and conventional pathologic features [see comments]. Journal of Clinical Oncology, 1992, 10(5):686-95.


10. Molina R; Ciocca DR; Tandon AK; Allred DC; Clark GM; Chamness GC; Gullick WJ; McGuire WL. Expression of HER-2/neu oncoprotein in human breast cancer: a comparison of immunohistochemical and western blot techniques. Anticancer Research, 1992, 12:1965-71.


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