

c-erbB-2 / HER-2 / neu Ab-6 (Clone N28)**Mouse Monoclonal Antibody****Cat. #MS-307-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml)** (Purified Ab with BSA and Azide)**Cat. #MS-307-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)

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: Ab-6 reacts with the intact cells,^{1,2} shows no effect on internalization of c-erbB-2,³ strongly stimulates (>10-fold) the tyrosine kinase activity,^{1,3} and promotes (~40%) the tumorigenic growth in CD1/nude mice of N87 human gastric carcinoma cell line overexpressing c-erbB-2.^{1,2,3}

Mol. Wt. of Antigen: 185kDa**Epitope:** Extracellular domain**Species Reactivity:** Human.^{1,2,3} Does not react with mouse and rat. Others-not tested**Clone Designation:** N28**Ig Isotype/Light Chain:** IgG₁**Immunogen:** Intact SKBR-3 breast cancer cells**Applications and Working Dilutions:**

- Stimulates (10-fold) Tyrosine Kinase Activity^{1,3} (Order Ab without sodium azide)
- Effect on Tumor Growth (~40% stimulatory^{1,2,3}) (Order Ab without sodium azide)
- Immunoprecipitation¹ (Use Protein G) (Native and denatured) (Ab at 2µg/mg protein lysate)

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

Positive Control: SKBR-3 cells.**Cellular Localization:** Cell membrane

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.

Supplied As:

200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

Key References:

1. Stancovski I *et. al.* Proceedings of the National Academy of Sciences, 1991, 88(19): 8691-5.
2. Hurwitz E *et. al.* Proceedings of the National Academy of Sciences, 1995, 92(8):3353-7.
3. Klapper LN, *et. al.* Oncogene, 1997, 14(17): 2099-109.

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. We make 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 actual 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.

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