**c-erbB-3 / HER-3 Ab-2 (Clone 2F12)**

**Mouse Monoclonal Antibody**

Cat. #MS-201-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-201-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

Cat. #MS-201-PCL (0.1ml) (Positive Control for Western Blot)

**Description:** c-erbB-3/HER-3 is the third member of the type I family of growth factor receptors. It binds to ligands in the heregulin family. c-erbB-3 is over-expressed in a variety of tumors including breast, stomach, pancreas, and colon. Heregulin & EGF stimulate tyrosine phosphorylation of c-erbB-3 to different extents.

**Mol. Wt. of Antigen:** 185kDa

**Epitope:** aa1295-1323

**Species Reactivity:** Human, Cow, Rat, and Mouse. Others-not tested.

**Clone Designation:** 2F12

**Ig Isotype/Light Chain:** IgG2a/κ

**Immunogen:** Recombinant rat c-erbB-3/HER-3 oncoprotein

**Applications and Working Dilutions:**
- Immunoprecipitation (Native and denatured) (Use Protein A) (Ab 2µg/mg protein lysate)
- Western Blotting (Ab at 1µg/ml for 2hrs at RT)

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

**Positive Control:** T47D cells.

**Cellular Localization:** Cytoplasmic and cell membrane

**Supplied As:** 200µg/ml of Ab purified from the ascites fluid by Protein A 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.

**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.

**Suggested 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. 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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Additional Suggested References:
6. Soltoff SP; Carraway KL 3rd; Prigent SA; Gullick WG; Cantley LC; Cerione RA; Carraway KL 3rd. Demonstration of ligand-dependent activation by the erbB-3 tyrosine kinase and its constitutive activation in human breast tumor cells. Proc Natl Acad Sci USA, 1993, 90:2900-4.
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11. Carraway KL 3rd; Sliwkowski MX; Akita R; Platko JV; Guy PM; Nuijens A; Diamonti AJ; Vandlen RL; Cantley LC; Cerione RA. The erbB3 gene product is a receptor for heregulin. Journal of Biological Chemistry, 1994, 269(19):14303-6.
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17. Wen D; Peles E; Cupples R; Suggs SV; Bacus SS; Luo Y; Trail G; Hu S; Silbiger SM; Levy RB; Koski RA; Lu SS; Yarden Y. Neu differentiation factor: a transmembrane glycoprotein containing an EGF domain and an immunoglobulin homology unit. Cell, 1992, 69:559-72.
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19. Avila MA; Velasco JA; Cho C; Lupu R; Wen D; Notario V. Hyperactive autocrine loop mediated by a NDF-related factor in neoplastic hamster embryo fibroblasts expressing an activated cph oncogene. Oncogene, 1995, 10(5):963-71.
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