Heregulin / NDF / GGF / Neuregulin Ab-2
Rabbit Polyclonal Antibody
Cat. #RB-276-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 1.0mg/ml) (Purified Ab with BSA and Azide)
Cat. #RB-276-P1ABX or -PABX (0.5ml or 1.0ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #RB-276-B0, -B1, or -B (0.1ml, 0.5ml, or 1.0ml at 200 µg/ml) (Biotin-Labeled Ab with BSA and Azide)
Cat. #RB-276-PCL (0.1ml) (Positive Control for Western Blot)
Cat. # PP-276 (1.0ml at 200µg/ml) (Blocking Peptide with BSA and Azide)

**Description:** Heregulin (HRG) or neu differentiation factor (NDF) binds to c-erbB-3 and c-erbB-4 receptors on mammary and neuronal cells with low and high affinities, respectively. HRG/NDF exists in several isoforms, which are classified in two groups, α and β that differ in their EGF-like domain and in receptor binding affinity.

**Comments:** Ab-2 reacts weakly with α-HRG and strongly with β-HRG. This antibody does not inhibit the binding of HRG to ErbB receptors but it efficiently blocks the HRG-induced proliferation and differentiation of cultured human mammary cells. It is also excellent for the detection of HRG by Western blotting.

**Mol. Wt. of Antigen:** 44kDa

**Epitope:** EGF-like domain

**Species Reactivity:** Human and Mouse. Others-not known.

**Immunogen:** A highly antigenic synthetic peptide from the EGF-like domain of human heregulin.

**Applications and Working Dilutions:**
- Biological Blockade (Order Ab without azide) (Use Ab at 50µg/ml culture medium)
- Western Blotting (Ab 5-10µg/ml for 2 hrs atRT)
- Immunohistology (Not suitable)

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

**Positive Control:** HRGβ1 recombinant protein or LS174T cells.

**Cellular Localization:** Cytoplasmic and intercellular spaces

**Supplied As:** Total IgG purified from rabbit antisera by Protein A chromatography. Prepared at 1mg/ml in 10mM PBS, pH 7.4, with 0.2% BSA & 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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