

c-erbB-2 / HER-2 / neu (Clone EP1045Y)**Rabbit Monoclonal Antibody****Cat. #RM-2112-S0 or -S (0.1ml or 1.0ml Supernatant)****Cat. #RM-2112-R7 (7.0ml)** (Ready-to-Use for Immunohistochemical Staining)***Description:***

HER2 gene encodes a transmembrane glycoprotein with tyrosine kinase activity. It is closely related in structure to the epidermal growth factor receptor *c-erbB-3/HER3/neu* oncoprotein. The protein is detectable in a subset of breast and other carcinomas (urinary bladder, stomach, lung, endometrium and ovary). In the case of breast cancer, over expression determined by immunohistochemistry has been shown to be associated with poor prognosis and an indication to initiate trastuzumab/herceptin therapy.

Mol. Wt. Of Antigen: 185kDa***Epitope:*** not determined***Ig Isotype:*** Rabbit IgG***Species Reactivity:*** Human. Others not tested.***Clone Designation:*** EP1045Y***Immunogen:*** A synthetic peptide corresponding to the c-terminus of human Her2***Applications and Suggested Dilutions:***

- Immunohistology (Formalin/paraffin)
(Use Ab 1:100 for 20 min with LP detection system)

* (Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM EDTA, pH 8.0, heating to 98°C for 20 min using the Thermo Scientific PT Module)

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

Positive Control: Breast carcinomas***Cellular Localization:*** Cell membrane***Supplied As:***

Tissue culture supernatant with 15mM sodium azide.
or

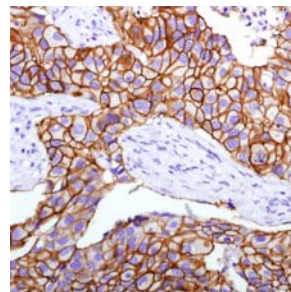
Prediluted antibody which is ready-to-use for immunohistochemical staining.

Storage and Stability: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.***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.



Formalin-fixed, paraffin-embedded breast carcinoma stained with rabbit monoclonal anti-HER-2 antibody (cat. #RM-2112-S) using peroxidase conjugate and DAB chromogen. Note membrane staining of tumor cells.

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