

# Product Datasheet

## ErbB2/Her2 Antibody (HRB2/282)

### NBP2-32863-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-32863-0.1mg**

ErbB2/Her2 Antibody (HRB2/282)

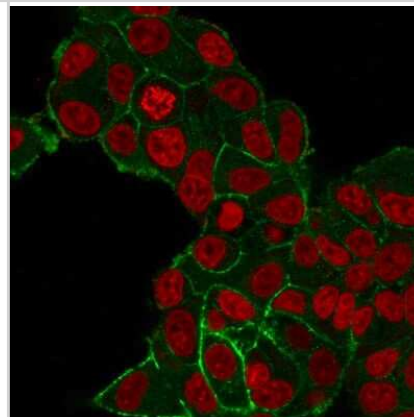
| Product Information     |                          |
|-------------------------|--------------------------|
| Unit Size               | 0.1 mg                   |
| Concentration           | 0.2 mg/ml                |
| Storage                 | Store at 4C.             |
| Clonality               | Monoclonal               |
| Clone                   | HRB2/282                 |
| Preservative            | 0.05% Sodium Azide       |
| Isotype                 | IgG1 Kappa               |
| Purity                  | Protein A or G purified  |
| Buffer                  | 10 mM PBS with 0.05% BSA |
| Target Molecular Weight | 185 kDa                  |

| Product Description     |  |
|-------------------------|--|
| Description             | <p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0 mg/ml. (NBP2-34642)</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.</p>  |
| Host                    | Mouse  |
| Gene ID                 | 2064   |
| Gene Symbol             | ERBB2  |
| Species                 | Human  |
| Specificity/Sensitivity | Recognizes a protein of 185kDa, which is identified as c-erbB-2/HER-2/neu. Its epitope is localized in the extracellular domain. C-erbB-2/HER-2 is a member of the EGFR family. This monoclonal antibody is specific and shows minimal cross-reaction with other members of the EGFR-family. Receptors of this family are located on the plasma membrane and consist of an extracellular ligand-binding domain that is connected to a large intracellular domain by a single transmembrane sequence. c-erbB-2/HER-2 protein is over-expressed in a variety of carcinomas especially those of breast and ovary. |
| Immunogen               | Recombinant extracellular domain of human ErbB2/Her2 protein (Uniprot: P04626)   |

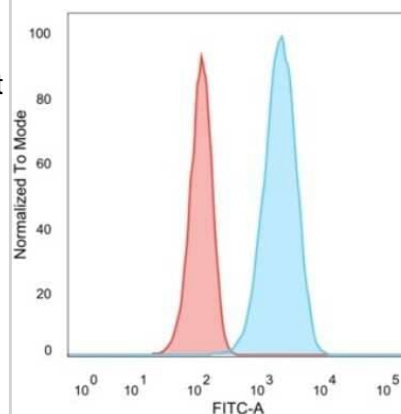
| Product Application Details |  |
|-----------------------------|--|
| Applications                | ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Protein Array                                      |
| Recommended Dilutions       | Flow Cytometry 1-2 ug/million cells, ELISA, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Protein Array       |
| Application Notes           | ELISA: For coating, order antibody without BSA). Optimal dilution for a specific application should be determined. |

## Images

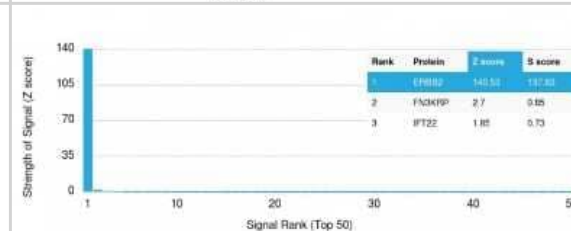
Immunocytochemistry/Immunofluorescence: ErbB2/Her2 Antibody (HRB2/282) [NBP2-32863] - Immunofluorescent staining of PFA-fixed MCF-7 cells with ErbB2/Her2 Monospecific Mouse Monoclonal Antibody (HRB2/282) followed by goat anti-Mouse IgG-CF488 (Green). Nuclei are stained with Reddot (Red).



Flow Cytometry: ErbB2/Her2 Antibody (HRB2/282) [NBP2-32863] - Flow Cytometric Analysis of trypsinized PFA-fixed MCF-7 cells. ErbB2/Her2 Monospecific Mouse Monoclonal Antibody (HRB2/282); followed by Goat anti-mouse IgG-CF488 (Blue); Isotype control (Red).



Protein Array: ErbB2/Her2 Antibody (HRB2/282) [NBP2-32863] - Analysis of Protein Array containing more than 19,000 full-length human proteins using ErbB2/Her2 Antibody (HRB2/282). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5.



## Publications

Lix K, Tran M, Massey M, et al. Dextran Functionalization of Semiconducting Polymer Dots and Conjugation with Tetrameric Antibody Complexes for Bioanalysis and Imaging ACS Appl Bio Mater 2022-01-12 [PMID: 35019459]

Rees K, Tran MV, Massey M et al. Dextran-Functionalized Semiconductor Quantum Dot Bioconjugates for Bioanalysis and Imaging Bioconjug. Chem. 2020-02-21 [PMID: 32083851]

Tran MV, Susumu K, Medintz IL, Algar WR Supraparticle Assemblies of Magnetic Nanoparticles and Quantum Dots for Selective Cell Isolation and Counting on a Smartphone-Based Imaging Platform Anal. Chem. 2019-08-26 [PMID: 31449391]



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### **Products Related to NBP2-32863-0.1mg**

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|                  |   |
|------------------|---|
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43319-0.5mg | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)           |
| NBP2-29624PEP    | ErbB2/Her2 Antibody Blocking Peptide                    |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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