

## Datasheet for 900-C01-B37

### c-erbB2 Antibody

#### Overview

|                      |  |
|----------------------|--|
| <b>Description:</b>  | Anti-c-ErbB-2 (RABBIT) Monoclonal Antibody - 900-C01-B37 |
| <b>Item No.:</b>     | 900-C01-B37  |
| <b>Size:</b>         | 100 µL   |
| <b>Applications:</b> | IHC  |
| <b>Reactivity:</b>   | Human  |
| <b>Host Species:</b> | Rabbit   |

#### Product Details

|                      |  |
|----------------------|--|
| <b>Background:</b>   | The ERBB2 gene encodes a member of the tyrosine protein kinase superfamily that is an essential component of a neuregulin-receptor complex called c-erbB2 (also known as Receptor tyrosine-protein kinase erbB-2, p185erbB2, C-erbB-2, NEU proto-oncogene, tyrosine kinase-type cell surface receptor HER2, MLN 19 and CD340), although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. C-erbB2 is not activated by EGF, TGF-alpha and amphiregulin. Defects in ERBB2 are associated with gastric cancer, familial glioma of brain (glioblastoma multiforme), ovarian cancer and lung cancer (adenocarcinoma of lung). c-erbB2 antibody is ideal for Cancer and Signal Transduction research. |
| <b>Synonyms:</b>     | rabbit anti-c-erbB2 Antibody, Receptor tyrosine-protein kinase erbB-2, p185erbB2, C-erbB-2, NEU proto-oncogene, tyrosine kinase-type cell surface receptor HER2, MLN 19, CD340   |
| <b>Host Species:</b> | Rabbit   |
| <b>Clonality:</b>    | Monoclonal   |
| <b>Clone ID:</b>     | SP3  |
| <b>Format:</b>       | CCS  |

#### Target Details

|                        |                     |
|------------------------|---------------------|
| <b>Gene Name:</b>      | ERBB2               |
| <b>Reactivity:</b>     | Human               |
| <b>Immunogen Type:</b> | Recombinant Protein |

|                            |   |
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| <b>Immunogen:</b>          | erbB2 monoclonal antibody was produced by repeated immunizations with a recombinant protein corresponding to amino acid residues encoding the extracellular domain of human c-erbB2 protein. The hybridoma was produced by fusing New Zealand White rabbit splenocytes and myeloma cells using conventional technology. |
| <b>Purity/Specificity:</b> | Anti-erbB2 Antibody is clarified tissue culture supernate. The antibody is specific for human c-erbB2 protein. Cross-reactivity with c-erbB2 protein from other sources has not been determined.  |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">NCBI - NP_001005862.1</a></li><li>• <a href="#">UniProtKB - P04626</a></li><li>• <a href="#">GeneID - 2064</a></li></ul>  |

## Application Details

|                             |   |
|-----------------------------|---|
| <b>Tested Applications:</b> | IHC   |
| <b>Application Note:</b>    | Anti-erbB2 Antibody monoclonal antibody contains TBS/1% BSA. Anti-erbB2 Antibody is tested with IHC and is suitable for ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 185 kDa in size corresponding to c-erbB2 protein by western blotting in the appropriate cell lysate or extract. For immunohistochemistry, samples should be formalin fixed and paraffin embedded. Deparaffinize slides using xylene or xylene alternatives and graded alcohols. Staining requires boiling of sections in 10 mM citrate buffer pH 6.0 for 10 min followed by cooling at RT for 20 min. C-erbB2 is found in human breast carcinoma tissue at the cell membrane. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.   |
| <b>ELISA:</b>               | 1:10,000  |
| <b>IHC:</b>                 | 1:100   |
| <b>WB:</b>                  | 1:200-1:500   |

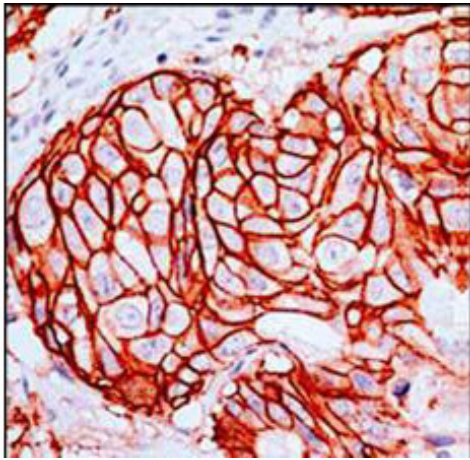
## Formulation

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|------------------------|--|
| <b>Physical State:</b> | Liquid (sterile filtered)  |
| <b>Buffer:</b>         | See application note.  |
| <b>Preservative:</b>   | 0.1% (w/v) Sodium Azide  |
| <b>Stabilizer:</b>     | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |

## Shipping & Handling

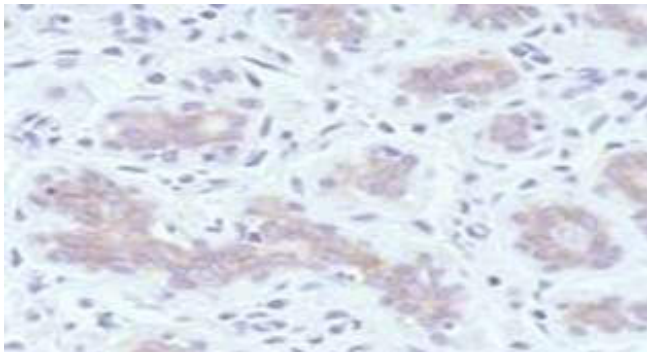
|                            |  |
|----------------------------|--|
| <b>Shipping Condition:</b> | Wet Ice  |
| <b>Storage Condition:</b>  | Store at 2-8°C. Do not freeze. The user must validate any other storage conditions. When properly stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.  |

## Images



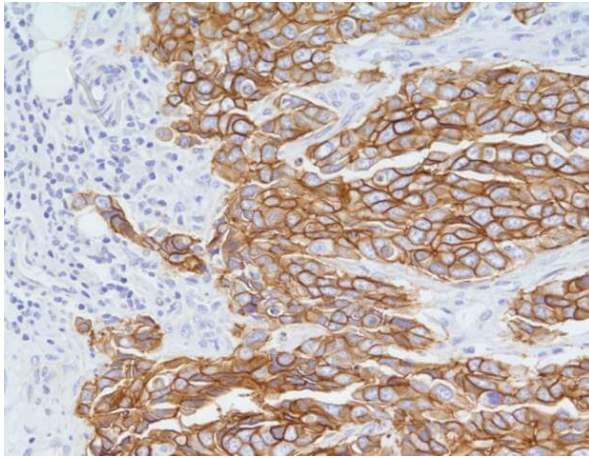
### Immunohistochemistry

Rockland's Anti-c-erbB2 Monoclonal Antibody (Rabbit) was used to detect c-erbB2 in human breast tumor tissue. Tissue was formalin-fixed and paraffin embedded. Staining requires boiling of sections in 10 mM citrate buffer pH 6.0 for 10 min followed by cooling at RT for 20 min. The primary antibody was diluted 1:100 and reacted with tissue for 30 min at RT.



### Immunohistochemistry

Anti-c-erbB-2/HER-2 antibody stains normal Human Breast tissue.

**Immunohistochemistry**

Ati-c-erbB-2/HER-2 antibody stains Human Breast Carcinoma.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.