

## Rabbit anti-Human HER2 neu Monoclonal Antibody | anti-HER2 antibody

HER2 neu (EP3)

|                              |                       |                            |
|------------------------------|-----------------------|----------------------------|
| CATALOG #<br><b>AAA59333</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> |
|------------------------------|-----------------------|----------------------------|

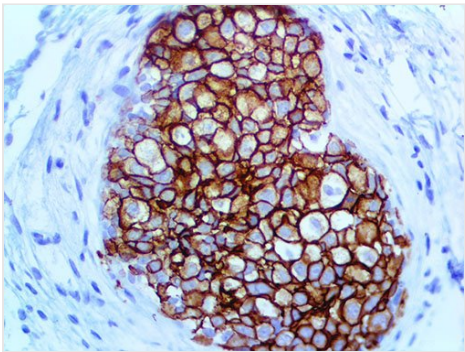
### PRODUCT SYNONYMS

HER2 neu; Monoclonal Antibody; HER2 neu (EP3); ERBB2; HER2; anti ERBB2; anti HER2; anti Neu; anti-ERBB2; anti-HER2; anti-Neu; c erb B2 neu protein; CD340; HER 2; HER 2 neu; herstatin; NEU; neuroblastoma glioblastoma derived oncogene homolog; NGL; p185erbB2; Receptor tyrosine protein kinase erbB 2; TKR1; tyrosine kinase type cell surface receptor HER2; v erb b2 avian erythroblastic leukemia viral oncogene homolog 2 neuro glioblastoma derived oncogene homolog; v erb b2 erythroblastic leukemia viral oncogene homolog 2 neuro glioblastoma derived oncogene homolog avian; Metastatic lymph node gene 19 protein; Proto oncogene c ErbB 2; proto oncogene Neu; anti-HER2 antibody

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clonality               | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isotype                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clone Number            | EP3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form/Format             | Paraffin, Frozen<br>HER-2 neu is a rabbit monoclonal antibody for immunohistochemistry derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH7.5, containing BSA and sodium azide as a preservative.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Immunogen               | Synthetic peptide corresponding to residues near the C-terminus of human HER2 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Control                 | Breast Carcinoma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Localization            | Membranous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Presentation            | Anti-HER2 neu is a rabbit monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Precautions             | <ol style="list-style-type: none"> <li>1. This product contains &lt;0.1% sodium azide (NaN<sub>3</sub>) as a preservative. Ensure proper handling procedures are used with this reagent.</li> <li>2. Always wear personal protective equipment such as a laboratory coat, goggles, and gloves when handling reagents.</li> <li>3. Dispose of unused solution with copious amounts of water.</li> <li>4. Do not ingest reagent. If reagent is ingested, seek medical advice immediately.</li> <li>5. Avoid contact with eyes. If contact occurs, flush with large quantities of water.</li> <li>6. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar).</li> <li>7. For additional safety information refer to Safety Data Sheet for this product.</li> <li>8. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and AMDL" (see References in this document).</li> </ol> |
| Mounting Protocols      | For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMounter or organic solvent based resin such as PermaMounter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product Limitations     | Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized, and incubation time), optimal performance should be established through the use of positive and negative controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage | Store at 2-8°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Abbreviated Immunohistochemical Protocol |                       |                     |                       |
|------------------------------------------|-----------------------|---------------------|-----------------------|
| Step                                     | ImmunoDetector AP/HRP | PolyDetector AP/HRP | PolyDetector Plus HRP |
| Peroxidase/AP Blocker                    | 5 min.                | 5 min.              | 5 min.                |
| Primary Antibody                         | 30-60 min.            | 30-60 min.          | 30-60 min.            |
| 1st Step Detection                       | 10 min.               | 30-45 min.          | 15 min.               |
| 2nd Step Detection                       | 10 min.               | Not Applicable      | 15 min.               |
| Substrate- Chromogen                     | 5-10 min.             | 5-10 min.           | 5-10 min.             |
| Counterstain/Coverslip                   | Varies                | Varies              | Varies                |



IHC (Immunohistochemistry)  
HER-2 neu Antibody Immunohistochemistry on a FFPE Breast Carcinoma Tissue

Application Data

| Presentation | Dilution     | Volume  |
|--------------|--------------|---------|
| Predilute    | Ready-to-Use | 3.0 mL  |
| Predilute    | Ready-to-Use | 7.0 mL  |
| Predilute    | Ready-to-Use | 15.0 mL |
| Concentrate  | 1:50-1:200   | 0.1 mL  |
| Concentrate  | 1:50-1:200   | 0.5 mL  |
| Concentrate  | 1:50-1:200   | 1.0 mL  |

Dilution Info

ADDITIONAL INFORMATION

Related Product Information for anti-HER2 antibody

Summary and Explanation:  
HER2 /ErbB2 is one of four members of the ErbB receptor family of transmembrane receptor-like tyrosine kinases .The kinase activity of ErbB2 can be activated without a ligand if it is overexpressed, and by association with other ErbB proteins.  
  
HER2 is overexpressed in 25–30% of all breast cancers, including primary as well as metastatic breast tumors. HER2 has been widely investigated as a prognostic indicator.

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.