

## IVMB0449

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### Product Information

<b>Product SKU:</b> IVMB0449	<b>Clone:</b> 4D5-8	<b>Target:</b> HER-2/neu
<b>Size:</b> 50 µg		<b>Isotype:</b> Human IgG1k

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### Additional Information

<b>Reactivity:</b> Human	<b>Host Species:</b> Human
<b>Antibody Type:</b> Biosimilar Recombinant Human Monoclonal Antibody	<b>Expression Host:</b> HEK-293 Cells

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### Immunogen Information

**Background:** Trastuzumab is a monoclonal antibody targeting HER2, a 185 kDa transmembrane glycoprotein that contains an extracellular domain and intracellular tyrosine kinase activity. When it is functioning normally, the HER2 pathway supports cell growth and division. On the other hand, the over expression of HER2 propels cell growth beyond its typical range. This overexpression is associated with some cancers, namely breast and stomach, in which the HER2 protein can be expressed up to 100 times more than in typical cells. Trastuzumab induces an immune-mediated response that triggers the internalization and downregulation of HER2 making it an excellent target for immunotherapy. Several clinical studies are under way which show that anti-HER-2/neu antibodies inhibit the growth and proliferation of these tumor cells In vitro as well as In vivo.

**Product Concentration:** 0.2 mg/ml

**Applications:** FC

**Synonyms:** ErbB-2, NEU, NGL, HER2, TKR1, CD340, MLN 19, HER-2/neu

**Antigen Distribution:** Ubiquitous expression with highest expression levels found in the kidney, skin, esophagus, and small intestine.

**Immunogen:** Human epidermoid carcinoma cells (A431) over-expressing EGFR.

- Formulation:** This R-phycoerythrin (R-PE) conjugate is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.
- Specificity:** This non-therapeutic biosimilar antibody uses the same variable region sequence as the therapeutic antibody Trastuzumab. Clone 4D5-8 recognizes human erbB-2. This product is for research use only.
- Pathogen Testing:** -
- Storage & Handling:** This R-phycoerythrin (R-PE) conjugate is stable when stored at 2-8°C. Do not freeze.