

#### DESCRIPTION

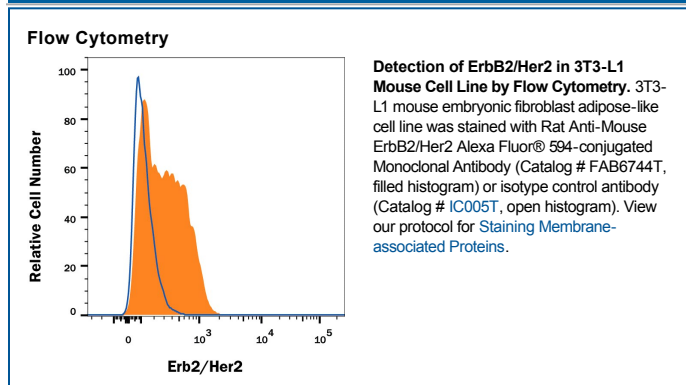
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse ErbB2/Her2 in direct ELISAs. In direct ELISAs, less than 5% cross-reactivity with recombinant human ErbB2, recombinant mouse (rm) ErbB3, rmErbB4, and rmEGF R is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>1</sub> Clone # 666521
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse ErbB2/Her2 Thr23-Thr653 Accession # P70424
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.5 µg/10 <sup>6</sup> cells	See Below

#### DATA



#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

ErbB2, also known as CD340, Neu, and Her2 (Human Epidermal Growth Factor Receptor 2), is a 180-185 kDa type I transmembrane glycoprotein that is a member of the Class I family of tyrosine kinase receptors. ErbB2 is widely expressed on and in epithelial cells, and plays a role in development, cancer, communication at the neuromuscular junction, and regulation of cell growth and differentiation. The mouse ErbB2 extracellular domain (ECD, amino acids 23-653) contains two "L" domains and two cysteine-rich domains. Within the ECD, it shares 85% and 94% amino acid sequence identity with human and rat ErbB2 ECD, respectively. The protease ADAM10 releases a 95-110 kDa soluble fragment of ErbB2 from the cell surface. ErbB2 is also known to undergo alternative splicing, and to appear in the nucleus as part of a transcriptional regulatory complex. ErbB2 has no identified ligands, but heterodimerizes with ErbB1 (EGF R), ErbB3, or ErbB4 to form higher affinity signaling complexes. It also appears to form a complex with Plexin B1, c-met, and Mucin-4. Within those complexes, non-EGF ligands are likely involved. The ErbB2/ErbB3 heterodimer is expressed in the majority of breast, skin, ovary and gastrointestinal tumors and transduces a highly mitogenic signal in response to neuregulin 1 (NRG1; heuregulin 1) or NRG2.

**PRODUCT SPECIFIC NOTICES**

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