

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse ErbB2/Her2 in direct ELISAs and Western blots. In Western blots using recombinant protein, approximately 10% cross-reactivity with recombinant human ErbB2 is observed and less than 1% cross-reactivity with recombinant mouse (rm) ErbB3 and rmErbB4 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse ErbB2/Her2 Thr23-Thr653 Accession # P70424
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

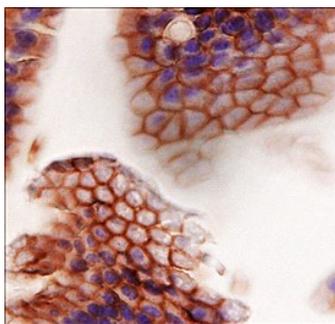
**APPLICATIONS**

**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>Western Blot</b>	1 µg/mL	3T3-L1 mouse embryonic fibroblast adipose-like cell line.
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

**DATA**

**Immunohistochemistry**



**ErbB2/Her2 in Mouse Intestine.**  
ErbB2/Her2 was detected in perfusion fixed frozen sections of mouse intestine using Sheep Anti-Mouse ErbB2/Her2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5176) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to plasma membranes. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

ErbB2, also called Neu and Her2 (human epidermal growth factor receptor 2), is a 185 kDa type I transmembrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors for EGF superfamily growth factors. ErbB2 is widely expressed in epithelial cells and plays roles in development, cancer, communication at the neuromuscular junction, and regulation of cell growth and differentiation. The mouse ErbB2 extracellular domain (amino acids 23-653 of 1256) shares 85% and 94% aa identity with human and rat ErbB2 ECD, respectively. The protease ADAM10 releases a 110 kDa soluble fragment of ErbB2 from the cell surface. ErbB2 has no identified ligands, but heterodimerizes with ErbB1 (EGF R), ErbB3, or ErbB4 to form higher affinity signaling complexes. 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.