

DESCRIPTION

Species Reactivity	Mouse
Specificity	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) Er
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse ErbB2/Her2 Thr23-Thr653 Accession # P70424
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.