

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human ErbB3 when phosphorylated at Y1262 in Western blots.                                                                                                                                                                                                          |
| <b>Source</b>             | Polyclonal Rabbit IgG                                                                                                                                                                                                                                                       |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Phosphopeptide containing human ErbB3 Y1262 site                                                                                                                                                                                                                            |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

## 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

ErbB3 (also known as HER3) is a type I transmembrane growth factor receptor and member of the human epidermal growth factor receptor (HER) family. ErbB3 is unique among HER family members in that it contains a defective kinase domain, and is therefore active only as a partner in a heterodimer complex with other ErbBs. Despite ErbB3's lack of intrinsic kinase activity, these heterodimers can be quite potent: the ErbB2/ErbB3 complex is considered the most active ErbB signaling dimer for the activation of downstream pathways. In addition, monomeric ErbB3 serves as a low affinity receptor for the heregulins (HRG), while ErbB2/ErbB3 heterodimers form a high affinity receptor complex. Phosphorylation of ErbB3 at Y1262 following ligand binding generates a binding site for the Grb2 adaptor protein.

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