

## Recombinant Phospho-HER2/ErbB2 (Tyr1221, 1222) Monoclonal Antibody

catalog number: **AN300005L**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

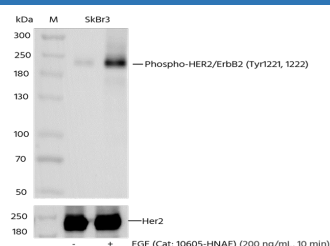
<b>Reactivity</b>	Human
<b>Immunogen</b>	A synthetic phosphopeptide corresponding to residues around (Tyr1221, 1222) of human HER2/ErbB2.
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Clone</b>	1A9
<b>Purification</b>	Protein A
<b>Buffer</b>	10 mM sodium HEPES, 150 mM NaCl, 100 µg/mL protein protectant, 50% glycerol, pH 7.5

### Applications

### Recommended Dilution

<b>WB</b>	1:10000-1:200000
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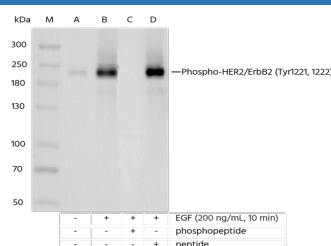
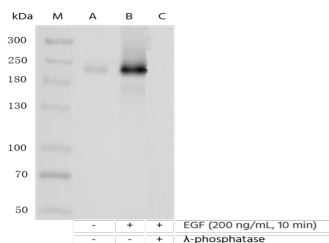
### Data



Western blot analysis of extracts from serum-starved SkBr3, untreated (-) or treated with EGF (Cat: PKSH031641) (200 ng/mL, 10 min; +), using Phospho-HER2/ErbB2 (Tyr1221, 1222) Monoclonal Antibody at 1:200000 dilution (upper) or Anti-Her2/ERBB2 Antibody, Mouse Monoclonal at 1:500 dilution (lower).

**Observed-MW:220 kDa**

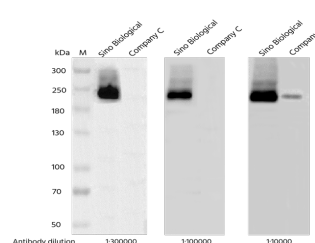
**Calculated-MW:138 kDa**



Western blot analysis of extracts from serum-starved SkBr3, untreated (line A); treated with EGF (Cat: PKSH031641) (200 ng/mL, 10 min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-HER2/ErbB2 (Tyr1221, 1222) Monoclonal Antibody at 1:200000 dilution.

**Observed-MW:220 kDa**

**Calculated-MW:138 kDa**



### For Research Use Only

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Rev. V1.1

Western blot analysis of extracts from serum-starved SkBr3, untreated (line A); treated with EGF (Cat: PKSH031641) (200 ng/mL, 10 min) (line B); treated with EGF and  $\lambda$ -phosphatase (line C) using Phospho-HER2/ErbB2 (Tyr1221, 1222) Monoclonal Antibody at 1:200000 dilution.

**Observed-MW:220 kDa**

**Calculated-MW:138 kDa**

Western blot analysis of extracts from serum-starved SkBr3, treated with EGF (Cat: PKSH031641) (200 ng/mL, 10 min), using Phospho-HER2/ErbB2 (Tyr1221, 1222) Monoclonal Antibody and other brands' antibodies (Company C) at dilution of 1:300000, 1:100000 and 1:10000.

**Observed-MW:220 kDa**

**Calculated-MW:138 kDa**

### Preparation & Storage

#### Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

#### Shipping

Ice bag

### Background

ErbB2, also called Neu and Her2, is a transmembrane glycoprotein in the ErbB family of tyrosine kinase receptors for EGF superfamily growth factors. ErbB2 is widely expressed in epithelial cells and over-expressed in a large number of breast carcinomas. ErbB2 has no identified ligands but heterodimerizes with ErbB1/EGF R, ErbB3, or ErbB4 to form higher affinity signaling complexes. The protease ADAM10 releases a 110 kDa soluble fragment of ErbB2 from the cell surface. ErbB2 plays roles in development, cancer, communication at the neuromuscular junction, and regulation of cell growth and differentiation. 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. ErbB3, ErbB2 and neuregulin are all required for formation of the sympathetic nervous system.

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