

## Anti-Phospho-HER2/ErbB2 (Tyr1221, 1222) Antibody (6Q103)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6Q103
Purification:	Protein A

### Applications

Verified Activity:	<p>1. Western blot analysis of extracts from serum-starved SkBr3, untreated (-) or treated with EGF (200 ng/mL, 10 min; +), using Phospho-HER2/ErbB2 (Tyr1221, 1222) rabbit Monoclonal Antibody at 1:200000 dilution (upper) or Anti-Her2/ERBB2 Antibody, Mouse Monoclonal at 1:500 dilution (lower).</p> <p>2. Western blot analysis of extracts from serum-starved SkBr3, untreated (line A); treated with EGF (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) rabbit monoclonal Antibody at 1:200000 dilution. (Validation Experiment)</p> <p>3. Western blot analysis of extracts from serum-starved SkBr3, untreated (line A); treated with EGF (200 ng/mL, 10 min) (line B); treated with EGF and λ-phosphatase (line C) using Phospho-HER2/ErbB2 (Tyr1221, 1222) rabbit monoclonal Antibody at 1:200000 dilution. (Validation Experiment)</p> <p>4. Western blot analysis of extracts from serum-starved SkBr3, treated with EGF (200 ng/mL, 10 min), using Phospho-HER2/ErbB2 (Tyr1221, 1222) Antibody, Rabbit Mab and other brands' antibodies (Company C) at dilution of 1:300000, 1:100000 and 1:10000. (Validation Experiment)</p>
Application:	WB
Recommended	WB: 1:10000-1:200000

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	A synthetic peptide: residues around (Tyr1221, 1222) of human HER2/ErbB2.
Antigen Species:	Human
Synonyms:	p-HER2/ErbB2 (Tyr1221, 1222);Erb-B2;NGL;Phospho-HER2/ErbB2 (Y1221, 1222);VSCN2;HER2/ErbB2 (p-Tyr1221, 1222);ErbB2;TKR1;HER2;HER-2/neu;MLN 19;HER-2;NEU;CD340;c-ERB2;p-HER2/ErbB2 (Y1221, 1222);HER2/ErbB2 (p-Y1221, 1222);MLN19;c-ERB-2;MLN-19;p185 (erbB2)
Biology Area:	Cancer Drug Targets, Receptor Tyrosine Kinases (RTKs)

Research Background

Human epidermal growth factor receptor 2 (HER2), also known as ErbB2, NEU, and CD340, is a type I membrane glycoprotein and belongs to the epidermal growth factor (EGF) receptor family. HER2 protein cannot bind growth factors due to the lacking of ligand binding domain of its own and autoinhibited constitutively. However, HER2 forms a heterodimer with other ligand-bound EGF receptor family members, therefore stabilizes ligand binding and enhances kinase-mediated activation of downstream molecules. HER2 plays a key role in development, cell proliferation and differentiation. HER2 gene has been reported to associate with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate, ovarian, lung cancers and so on. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

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