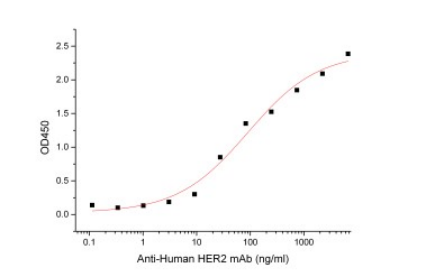
RecomAb™

# ERBB2 recombinant monoclonal antibody (Pertuzumab)

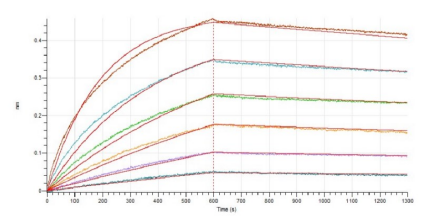
Catalog # RAB09692 Size 50 ug

## Applications




### Enzyme-linked Immunoabsorbent Assay

Immobilized Human ERBB2-His at 2 ug/mL (100 uL/well) can bind ERBB2 recombinant monoclonal antibody (Cat# RAB09692). The $ED_{50}$ of ERBB2 recombinant monoclonal antibody (Cat# RAB09692) is 89.54 ng/mL .



### Bio-layer interferometry

Loaded ERBB2 recombinant monoclonal antibody (Cat# RAB09692) on Protein A Biosensor, can bind Human ERBB2-His with an affinity constant of 1.36 nM as determined in BLI assay.

Greater than 95% as determined by reducing SDS-PAGE.

## Specification

| | |
|---|---|
| **Product Description** | Recombinant human monoclonal antibody (Pertuzumab) raised against human ERBB2. |

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| | |
|---|---|
| **Host** | Human |
| **Theoretical MW (kDa)** | 49.2, 23.5 |
| **Form** | Liquid |
| **Preparation Method** | Mammalian expression system |
| **Purity** | Greater than 95% as determined by reducing SDS-PAGE. |
| **Endotoxin Level** | < 0.001 EU/ug as determined by LAL test. |
| **Isotype** | Human IgG1 |
| **Regulatory Status** | For research use only (RUO) |
| **Recommend Usage** | ELISA<br>BLI assay<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.4 (0.2 um filtered solution). |
| **Storage Instruction** | Store at -20°C. Avoid multiple freeze-thaw cycles. |

## Applications

- Enzyme-linked Immunoabsorbent Assay

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- Bio-layer interferometry

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## Gene Info — ERBB2

| | |
|---|---|
| **Entrez GeneID** | 2064 |
| **Protein Accession#** | P04626 |
| **Gene Name** | ERBB2 |
| **Gene Alias** | CD340, HER-2, HER-2/neu, HER2, NEU, NGL, TKR1 |

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| | |
|---|---|
| **Gene Description** | v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) |
| **Omim ID** | 137215 137800 164870 211980 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized. [provided by RefSeq |
| **Other Designations** | c-erb B2/neu protein\|erbB-2\|herstatin\|neuroblastoma/glioblastoma derived oncogene homolog\|v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog) |

## Pathway

- Adherens junction
- Bladder cancer
- Calcium signaling pathway
- Endometrial cancer
- ErbB signaling pathway
- Focal adhesion
- Non-small cell lung cancer
- Pancreatic cancer
- Pathways in cancer
- Prostate cancer

## Disease

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- Adenocarcinoma
- Ataxia telangiectasia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cell Transformation
- Cleft Lip
- Cleft Palate
- Colorectal Neoplasms
- Disease Progression
- Endometrial Neoplasms
- Esophageal Neoplasms
- Fibroadenoma
- Gastritis
- Genetic Predisposition to Disease
- Glioma
- Head and Neck Neoplasms
- Heart Diseases
- Kidney Failure
- Laryngeal Neoplasms
- Lung Neoplasms
- Lymphatic Metastasis
- Mouth Neoplasms
- Neoplasm Invasiveness
- Neoplasm Metastasis

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- Neoplasm Recurrence
- Neoplasms
- Obesity
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Papillomavirus Infections
- Pharyngeal Neoplasms
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Pulmonary Disease
- Skin Neoplasms
- Stomach Neoplasms
- Thyroid Neoplasms
- Tooth Abnormalities
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Werner syndrome

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