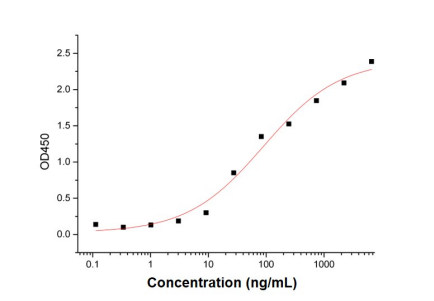
RecomAb™ | *In Vivo* Functional Grade Antibodies | Sm Size

# ERBB2 recombinant monoclonal antibody

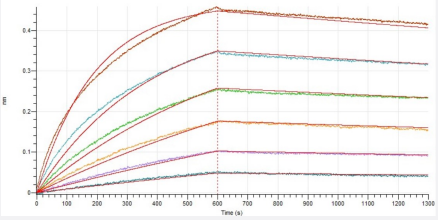
Catalog # RAB09510 Size 50 ug

## Applications



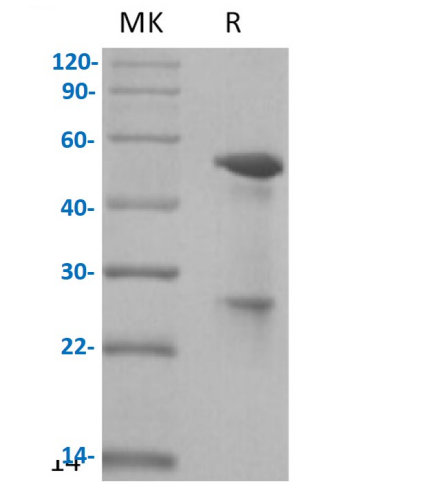

### Enzyme-linked Immunoabsorbent Assay

Immobilized Human ERBB2-His at 2 ug/mL (100 uL/well) can bind Human ERBB2 Antibody (Cat # RAB09510) . The $ED_{50}$ of Human ERBB2 Antibody (Cat # RAB07826) is 89.54 ng/mL.



### Bio-layer interferometry

Loaded Human ERBB2 Antibody (Cat # RAB09510) on Protein A Biosensor, can bind Human ERBB2-His with an affinity constant of 1.36 nM as determined in BLI assay.




### SDS-PAGE

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

## Specification

| | |
|---|---|
| **Product Description** | ERBB2 recombinant monoclonal antibody, IgG1 targeting Human ERBB2 recombinant protein. |
| **Antibody Species** | Human |
| **Theoretical MW (kDa)** | 49.2, 23.5 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell expression system |
| **Isotype** | Human IgG1 |
| **Purity** | ≥ 95% by SDS-PAGE |
| **Endotoxin Level** | < 0.001 EU per 1 ug of the protein by the LAL method. |
| **Form** | Liquid |
| **Isotype** | IgG1 |
| **Storage Buffer** | In PBS, pH 7.4 |
| **Sterility** | 0.2 um filtration |
| **Storage Instruction** | Store at -20°C, stable for 12 months after receipt.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human ERBB2-His at 2 ug/mL (100 uL/well) can bind Human ERBB2 Antibody (Cat # RAB09510) . The $ED_{50}$ of Human ERBB2 Antibody (Cat # RAB07826) is 89.54 ng/mL.

- Bio-layer interferometry

  Loaded Human ERBB2 Antibody (Cat # RAB09510) on Protein A Biosensor, can bind Human ERBB2-His with an affinity constant of 1.36 nM as determined in BLI assay.

## Gene Info — ERBB2

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Prostate cancer

## Disease

- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Mouth Neoplasms
- Neoplasm Invasiveness
- Neoplasm Metastasis
- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.