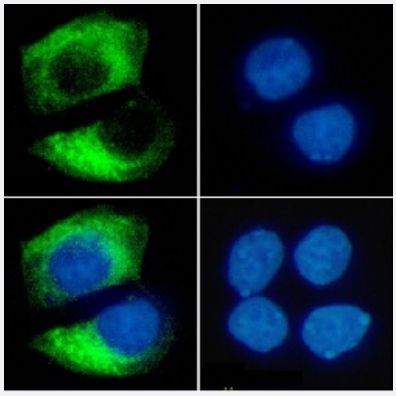
RecomAb™

ERBB2 recombinant monoclonal antibody, clone SER4

Catalog # RAB03523 Size 200 ug

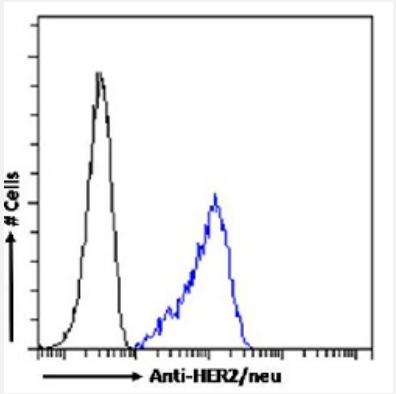
Applications

Immunofluorescence



Immunofluorescenct staining of MCF-7 cells with ERBB2 recombinant monoclonal antibody, clone SER4 (Cat # RAB03523).
Immunofluorescence analysis of paraformaldehyde fixed MCF-7 cells stained with the chimeric mouse IgG version of RAB03523 at 10 ug/mL for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue). The isotype control was stained with anti-unknown specificity antibody followed by Alexa Fluor® 488 secondary antibody.
(A) RAB03523
(B) DAPI
(C) Merged channels
(D) Isotype control

Flow Cytometry



Flow cytometric analysis of MCF-7 cells with ERBB2 recombinant monoclonal antibody, clone SER4 (Cat # RAB03523).
The fixed MCF-7 cells were stained with anti-unknown specificity antibody (isotype control-black line) or the mouse IgG1 version of RAB03523 (blue line) at a dilution of 1:100 for 1h at RT. After washing the bound antibody was detected using a goat anti-mouse IgG AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

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Western Blot

Western Blot analysis of human breast cancer tissue with ERBB2 recombinant monoclonal antibody, clone SER4 (Cat # RAB03523). Western Blot analysis the tissue lysates (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric mouse IgG version of RAB03523 at 2 ug/mL before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.

Specification

Product Description	Mouse recombinant monoclonal antibody raised against human ERBB2.
Antibody Species	Mouse
Immunogen	Original antibody is raised against recombinant protein corresponding to human ERBB2.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Isotype	IgG1 kappa
Recommend Usage	ELISA Flow Cytometry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS with 0.02% Proclin 300
Storage Instruction	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

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- Immunofluorescence

Immunofluorescenct staining of MCF-7 cells with ERBB2 recombinant monoclonal antibody, clone SER4 (Cat # RAB03523). Immunofluorescence analysis of paraformaldehyde fixed MCF-7 cells stained with the chimeric mouse IgG version of RAB03523 at 10 ug/mL for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue). The isotype control was stained with anti-unknown specificity antibody followed by Alexa Fluor® 488 secondary antibody.
(A) RAB03523
(B) DAPI
(C) Merged channels
(D) Isotype control

- Flow Cytometry

Flow cytometric analysis of MCF-7 cells with ERBB2 recombinant monoclonal antibody, clone SER4 (Cat # RAB03523). The fixed MCF-7 cells were stained with anti-unknown specificity antibody (isotype control-black line) or the mouse IgG1 version of RAB03523 (blue line) at a dilution of 1:100 for 1h at RT. After washing the bound antibody was detected using a goat anti-mouse IgG AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

Western Blot analysis of human breast cancer tissue with ERBB2 recombinant monoclonal antibody, clone SER4 (Cat # RAB03523). Western Blot analysis the tissue lysates (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric mouse IgG version of RAB03523 at 2 ug/mL before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.

Gene Info — ERBB2

Entrez GeneID	2064
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

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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

- Adenocarcinoma
- Ataxia telangiectasia
- Brain Neoplasms
- Breast cancer

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- 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
- Neoplasm Recurrence
- Neoplasms
- Obesity

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- 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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