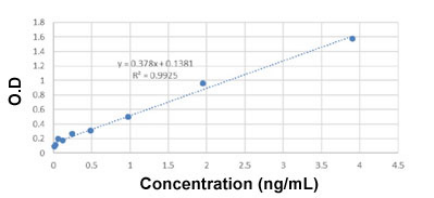
Anti-Trastuzumab recombinant monoclonal antibody, clone 15H2

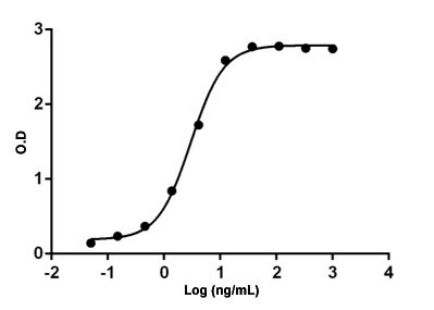
Catalog # RAB09601 Size 40 ug

Applications



Sandwich ELISA

The Sandwich ELISA assay is developed by using Anti-Trastuzumab monoclonal antibody, clone 11C4 (Cat # RAB09600) and Anti-Trastuzumab monoclonal antibody, clone 15H2 (Cat # RAB09601) as the capture and detection antibodies, respectively. In this ELISA assay, Anti-Trastuzumab monoclonal antibody, clone 15H2 was labeled with Biotin. The sensitivity of detecting Trastuzumab is up to 61 pg/mL.



Enzyme-linked Immunoabsorbent Assay

ELISA binding of Anti-Trastuzumab monoclonal antibody, clone 15H2 (Cat # RAB09601) with Trastuzumab. Coating antigen: Trastuzumab, 1 ug/mL. Anti-Trastuzumab monoclonal antibody, clone 15H2 dilution start from 1000 ng/mL. EC_{50} = 2.996 ng/mL. While the antibody does not recognize the human IgG (data not shown).

Specification

Product Description	Recombinant mouse monoclonal antibody raised against Trastuzumab. Target gene is HER2/neu.
Immunogen	Trastuzumab.
Host	Mouse
Specificity	The product is specific for Trastuzumab. The antibody is recommended as a detection antibody in a pharmacokinetic (PK) bridging assay with capture antibody : Anti-Trastuzumab recombinant monoclonal antibody, clone 11C4 (Cat # RAB09600).
Form	Lyophilized

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Preparation Method	The antibody is produced from a hybridoma resulting from the fusion of partner and B-lymphocytes obtained from a mouse immunized with Trastuzumab.
Purification	Protein A purification
Isotype	IgG1, kappa
Recommend Usage	ELISA (0.01-0.1 ug/mL (Direct/Indirect/Inhibitory)) Sandwich ELISA The optimal working dilution should be determined by the end user.
Inhibitory IC50	Non-inhibitory
Storage Buffer	Lyophilized from PBS, pH 7.4 (0.02% sodium azide).
Storage Instruction	Store at -20°C. The lyophilized product remains stable up to 1 year at -20°C from date of receipt. After reconstitution with deionized water (or equivalent) to a final concentration of 0.5 mg/mL, it can be stored for 2-3 weeks at 2-8°C or for up to 12 months at -20°C or below. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Sandwich ELISA

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Gene Info — ERBB2

Entrez GeneID	2064
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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