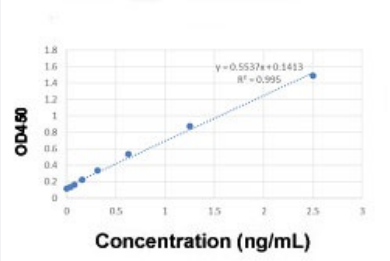
Anti-Cetuximab recombinant monoclonal antibody, clone 18D5

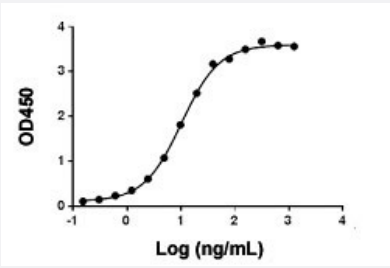
Catalog # RAB09633 Size 40 ug

Applications



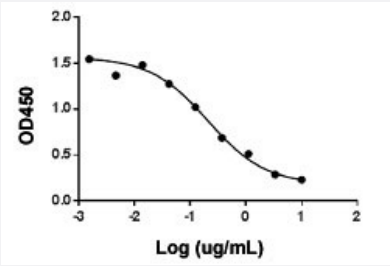
Sandwich ELISA

Standard curve of Cetuximab Sandwich ELISA. The Cetuximab Sandwich ELISA assay is developed by using Anti-Cetuximab monoclonal antibody, clone 20H1 (Cat # RAB09634) and Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) as the capture and detection antibodies, respectively. In this ELISA assay, Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) was labeled with Biotin. The sensitivity of detecting Cetuximab is 0.039 ng/mL.



Enzyme-linked Immunoabsorbent Assay

Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) binds with Cetuximab. Coating antigen: Cetuximab, 1 ug/mL. Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) dilution start from 1250 ng/mL. EC_{50} = 10.23 ng/mL. While the antibody does not recognize the human IgG Fc fragment (data not shown).



Blocking

Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) blocks Cetuximab binding with EGFR. Coating antigen: Cetuximab, 0.5 ug/mL. Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) final concentration: 15 ng/mL. EGFR dilution start from 10 ug/mL. IC_{50} = 207.3 ng/mL.

Specification

Product Description	Recombinant mouse monoclonal antibody raised against Cetuximab. Target gene is EGFR.

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Immunogen	Cetuximab.
Host	Mouse
Specificity	The product is specific for Cetuximab. This antibody blocks Cetuximab binding with EGFR in ELISA. The antibody is recommended as a detection antibody in a pharmacokinetic (PK) bridging assay wit h capture antibody Anti-Cetuximab recombinant monoclonal antibody, clone 20H1 (Cat # RAB09634).
Form	Lyophilized
Purification	Protein A purification
Isotype	IgG1, kappa
Recommend Usage	Blocking ELISA (ELISA detection: 0.01-1 ug/mL) (Direct/Indirect/Inhibitory ELISA) Sandwich ELISA The optimal working dilution should be determined by the end user.
Inhibitory IC50	0.2073 ug/mL
Storage Buffer	Lyophilized from PBS, pH 7.4 (0.02% sodium azide).
Storage Instruction	Store at -20°C on dry atmosphere, lyophilized antibodies are stable at 1 years. After reconstitution with deionized water (or equivalent) to a final concentration of 0.5 mg/mL, it can b e 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 shoul d be handled by trained staff only.

Applications

- Sandwich ELISA

  Standard curve of Cetuximab Sandwich ELISA. The Cetuximab Sandwich ELISA assay is developed by using Anti-Cetuximab monoclonal antibody, clone 20H1 (Cat # RAB09634) and Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) as the capture and detection antibodies, respectively. In this ELISA assay, Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) was labeled with Biotin. The sensitivity of detecting Cetuximab is 0.039 ng/mL.

- Enzyme-linked Immunoabsorbent Assay

  Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) binds with Cetuximab. Coating antigen: Cetuximab, 1 ug/mL. Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) dilution start from 1250 ng/mL. EC_{50} = 10.23 ng/mL. While the antibody does not recognize the human IgG Fc fragment (data not shown).

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- Blocking

  Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) blocks Cetuximab binding with EGFR. Coating antigen: Cetuximab, 0.5 ug/mL. Anti-Cetuximab monoclonal antibody, clone 18D5 (Cat # RAB09633) final concentration: 15 ng/mL. EGFR dilution start from 10 ug/mL. IC_{50} = 207.3 ng/mL.

Gene Info — EGFR

Entrez GeneID	1956
Gene Name	EGFR
Gene Alias	ERBB, ERBB1, HER1, PIG61, mENA
Gene Description	epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)
Omim ID	131550 211980
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protei n kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a lig and induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation . Mutations in this gene are associated with lung cancer. [provided by RefSeq
Other Designations	avian erythroblastic leukemia viral (v-erb-b) oncogene homolog|cell growth inhibiting protein 40|ce ll proliferation-inducing protein 61|epidermal growth factor receptor

Pathway

- Adherens junction
- Bladder cancer
- Calcium signaling pathway
- Colorectal cancer
- Cytokine-cytokine receptor interaction
- Dorso-ventral axis formation
- Endocytosis
- Endometrial cancer

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- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- Focal adhesion
- Gap junction
- Glioma
- GnRH signaling pathway
- MAPK signaling pathway
- Melanoma
- Non-small cell lung cancer
- Pancreatic cancer
- Pathways in cancer
- Prostate cancer
- Regulation of actin cytoskeleton

Disease

- Adenocarcinoma
- Anus Neoplasms
- Asthma
- Astrocytoma
- Atherosclerosis
- Barrett Esophagus
- Bile Duct Neoplasms
- Biliary Tract Neoplasms
- Bipolar Disorder
- Brain Neoplasms
- Breast cancer

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- Breast Neoplasms
- Bronchial Hyperreactivity
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Cell Transformation
- Central Nervous System Neoplasms
- Cervical Intraepithelial Neoplasia
- Cholangiocarcinoma
- Chromosome Aberrations
- Chromosome Deletion
- Cleft Lip
- Cleft Palate
- Cocarcinogenesis
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Cystadenocarcinoma
- Diabetes Mellitus
- Diarrhea
- Disease Progression
- Disease Susceptibility
- DNA Damage
- Drug Eruptions
- Drug Toxicity
- Edema

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- Endometrial Neoplasms
- Endometriosis
- Esophageal Neoplasms
- Exanthema
- Genetic Diseases
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Head and Neck Neoplasms
- Hepatitis C
- HIV Infections
- Hyperparathyroidism
- Hypersensitivity
- Hypopharyngeal Neoplasms
- Kidney Failure
- Kidney Neoplasms
- Liver Diseases
- Liver Neoplasms
- Lung carcinoma
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Mental Disorders
- Mouth Neoplasms
- Myoma
- Nasopharyngeal Neoplasms

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- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Osteosarcoma
- Otorhinolaryngologic Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Papillomavirus Infections
- Polycystic Kidney
- Polycystic kidney disease
- Precancerous Conditions
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Pulmonary Disease
- Ras oncogene
- Rectal Neoplasms
- Recurrence
- Skin Neoplasms
- Small Cell Lung Carcinoma
- Stomach Neoplasms
- Thyroid Neoplasms
- Tongue Neoplasms

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- Tonsillar Neoplasms
- Urinary Bladder Neoplasms
- Urinary Calculi
- Uterine Cervical Neoplasms
- Uterine Neoplasms
- Viremia
- Werner syndrome

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