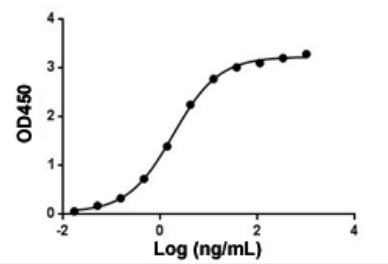
Anti-Tocilizumab monoclonal antibody, clone 6C10

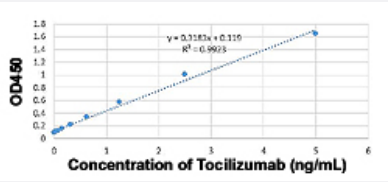
Catalog # MAB23096 Size 40 ug

Applications



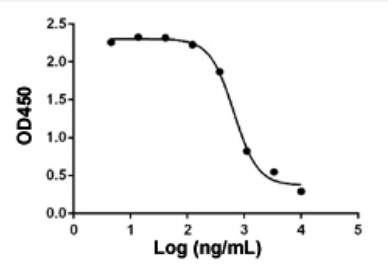
Enzyme-linked Immunoabsorbent Assay

ELISA binding of Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) with Tocilizumab. While the antibody does not recognize the human IgG (data not shown).Coating antigen: Tocilizumab, 1 ug/mL. Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) dilutions start from 1000 ng/mL. EC_{50} = 1.837 ng/mL.



Sandwich ELISA

Standard curve of Tocilizumab Sandwich ELISA. The Tocilizumab Sandwich ELISA assay is developed by using Anti-Tocilizumab monoclonal antibody, clone 14B10 (Cat # MAB23095) and Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) as the capture and detection antibodies, respectively. In this ELISA assay, Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) was labeled with Biotin. The sensitivity is less than 100 pg/mL.



Blocking

Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) blocks Tocilizumab binding with Human IL-6R (IL-6R, Human). Coating antigen: IL-6R, 0.5 ug/mL. Tocilizumab-biotin final concentration: 0.5 ug/mL. Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) dilutions start from 10 ug/mL. IC_{50} = 0.656 ug/mL.

Specification

Product Description	Mouse monoclonal antibody raised against Tocilizumab. Target gene is IL-6 receptor.

Immunogen	Tocilizumab.
Host	Mouse
Specificity	The product is specific for Tocilizumab. The antibody is recommended as a detection antibody in a pharmacokinetic (PK) bridging assay with capture antibody Anti-Tocilizumab monoclonal antibody, clone 14B10 (Cat # MAB23095).
Form	Lyophilized
Preparation Method	This antibody is produced from a hybridoma resulting from the fusion of partner and B-lymphocytes obtained from a mouse immunized with Tocilizumab.
Purification	Protein A purification
Isotype	IgG2b
Recommend Usage	ELISA (ELISA detection: 0.01-0.1 ug/mL; ELISA blocking: 1-30 ug/mL) (Direct/Indirect/Inhibitory ELISA) Sandwich ELISA The optimal working dilution should be determined by the end user.
Inhibitory IC50	0.656 ug/mL
Storage Buffer	Lyophilized from PBS, pH 7.4 (0.02% sodium azide).
Storage Instruction	Store at -20°C on dry atmospher. 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

- Enzyme-linked Immunoabsorbent Assay

  ELISA binding of Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) with Tocilizumab. While the antibody does not recognize the human IgG (data not shown).Coating antigen: Tocilizumab, 1 ug/mL. Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) dilutions start from 1000 ng/mL. EC_{50} = 1.837 ng/mL.

- Sandwich ELISA

  Standard curve of Tocilizumab Sandwich ELISA. The Tocilizumab Sandwich ELISA assay is developed by using Anti-Tocilizumab monoclonal antibody, clone 14B10 (Cat # MAB23095) and Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) as the capture and detection antibodies, respectively. In this ELISA assay, Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) was labeled with Biotin. The sensitivity is less than 100 pg/mL.

- Blocking

Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) blocks Tocilizumab binding with Human IL-6R (IL-6R, Human). Coating antigen: IL-6R, 0.5 ug/mL. Tocilizumab-biotin final concentration: 0.5 ug/mL. Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) dilutions start from 10 ug/mL. IC_{50} = 0.656 ug/mL.

Gene Info — IL6R

Entrez GeneID	3570
Gene Name	IL6R
Gene Alias	CD126, IL-6R-1, IL-6R-alpha, IL6RA, MGC104991
Gene Description	interleukin 6 receptor
Omim ID	147880
Gene Ontology	Hyperlink
Gene Summary	Interleukin 6 (IL6) is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in immune response. The protein encoded by this gene is a subunit of the receptor complex for IL6. The IL6 receptor is a protein complex consisting of this protein and interl eukin 6 signal transducer (IL6ST/GP130/IL6-beta), a receptor subunit also shared by many other cytokines. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Alternativ ely spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSe q
Other Designations	CD126 antigen|OTTHUMP00000034320|interleukin 6 receptor alpha subunit

Pathway

- Cytokine-cytokine receptor interaction
- Hematopoietic cell lineage
- Jak-STAT signaling pathway

Disease

- Abscess
- Adenocarcinoma

- Alzheimer disease
- Arthritis
- Asthma
- Atherosclerosis
- Autoimmune Diseases
- Behcet Syndrome
- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Chorioamnionitis
- Connective Tissue Diseases
- Coronary Disease
- Crohn Disease
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Nephropathies
- Edema
- Esophageal Neoplasms
- Esophagitis
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Glucose Intolerance
- Hematologic Diseases

- Hodgkin Disease
- Hyperandrogenism
- Hyperglycemia
- Infant
- Infection
- Inflammation
- Insulin Resistance
- Kidney Failure
- Lung Neoplasms
- Lymphatic Metastasis
- Lymphoproliferative Disorders
- Malignant melanoma
- Melanoma
- Metabolic Syndrome X
- Multiple Myeloma
- Musculoskeletal Diseases
- Myelodysplastic Syndromes
- Neoplasm Invasiveness
- Neoplasms
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteoporosis
- Pain
- Periodontitis
- Postoperative Complications
- Pre-Eclampsia

- Pregnancy Complications
- Premature Birth
- Psoriasis
- Pulmonary Disease
- Radiation Injuries
- Radiation Pneumonitis
- Respiratory Syncytial Virus Infections
- Respiratory Tract Infections
- Schizophrenia
- Sepsis
- Skin Diseases
- Skin Neoplasms
- Thoracic Neoplasms
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome