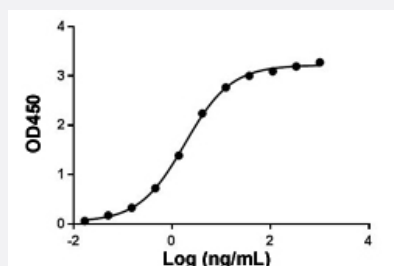


# Anti-Tocilizumab monoclonal antibody, clone 6C10 (Biotin)

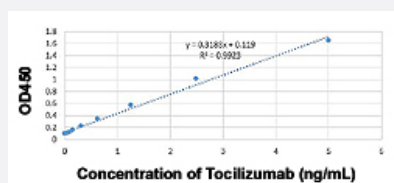
Catalog # MAB23097 Size 40 ug

## Applications



### Enzyme-linked Immunoabsorbent Assay

ELISA binding of Anti-Tocilizumab monoclonal antibody, clone 6C10 (Biotin) (Cat # MAB23097) 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 (Biotin) (Cat # MAB23097) 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 6C10 (Cat # MAB23096) and Anti-Tocilizumab monoclonal antibody, clone 6C10 (Biotin) (Cat # MAB23097) as the capture and detection antibodies, respectively. The sensitivity is less than 100 pg/mL.

## Specification

|                            |                                                                                                                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Mouse monoclonal antibody raised against Tocilizumab.<br>Target gene is IL-6 receptor.                                                                                                                                                           |
| <b>Immunogen</b>           | Tocilizumab.                                                                                                                                                                                                                                     |
| <b>Host</b>                | Mouse                                                                                                                                                                                                                                            |
| <b>Specificity</b>         | 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 # <a href="#">MAB23095</a> ). |
| <b>Form</b>                | Lyophilized                                                                                                                                                                                                                                      |

|                     |                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conjugation         | Biotin                                                                                                                                                                                                                                                                                                                                                        |
| 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) (Direct/Indirect ELISA)<br>Sandwich ELISA<br>The optimal working dilution should be determined by the end user.                                                                                                                                                                                                       |
| Inhibitory IC50     | N/A                                                                                                                                                                                                                                                                                                                                                           |
| Storage Buffer      | Lyophilized from PBS, pH 7.4 (1% BSA, 0.02% sodium azide).                                                                                                                                                                                                                                                                                                    |
| Storage Instruction | Store at -20°C on dry atmosphere. The lyophilized product remains stable up to 1 year at -20°C from date of receipt.<br>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.<br>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

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Standard curve of Tocilizumab Sandwich ELISA. The Tocilizumab Sandwich ELISA assay is developed by using Anti-Tocilizumab monoclonal antibody, clone 6C10 (Cat # MAB23096) and Anti-Tocilizumab monoclonal antibody, clone 6C10 (Biotin) (Cat # MAB23097) as the capture and detection antibodies, respectively. The sensitivity is less than 100 pg/mL.

## Gene Info — IL6R

|               |                                               |
|---------------|-----------------------------------------------|
| Entrez GeneID | <a href="#">3570</a>                          |
| Gene Name     | IL6R                                          |
| Gene Alias    | CD126, IL-6R-1, IL-6R-alpha, IL6RA, MGC104991 |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Description   | interleukin 6 receptor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Omim ID            | <a href="#">147880</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Summary       | <p>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 interleukin 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. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]</p> |
| 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](#)