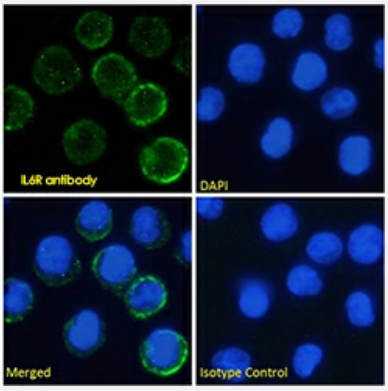
RecomAb™ HuAb

IL6R humanized monoclonal antibody, clone rhPM-1 (Tocilizumab)

Catalog # RAB01171 Size 200 ug

Applications



Immunofluorescence

Immunofluorescence analysis of paraformaldehyde fixed U937 cells on coverslips, permeabilized with 0.15% Triton and stained with the chimeric rabbit IgG version of rhPM-1 (Tocilizumab) at 10 ug/mL for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/mL), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

Specification

Product Description	Humanized recombinant monoclonal antibody raised against human IL-6.
Antibody Species	Human
Immunogen	Original antibody is raised against by CDR grafting of mouse PM-1 antibody onto human REI and N EW framework regions to create rhPM-1.
Reactivity	Human
Specificity	Tocilizumab binds specifically to both the membrane bound and soluble forms of human IL-6R. The IL 6 receptor is a protein complex consisting of an IL-6 receptor subunit (IL6R) and interleukin 6 signal tr ansducer Glycoprotein 130. Interleukin 6 (IL6) is a potent pleiotropic cytokine that regulates cell growt h and differentiation and plays an important role in immune response.
Form	Liquid
Purification	Protein A affinity purification
Isotype	IgG1, Kappa

Recommend Usage	Immunofluorescence 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.

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Gene Info — IL6R

Entrez GeneID	3570
Protein Accession#	P08887
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