

Product datasheet for **TA386091**

IL6R Human Monoclonal Antibody [Clone ID: rhPM-1 (Tocilizumab)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	rhPM-1 (Tocilizumab)
Applications:	ELISA
Reactivity:	Human
Host:	Human
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	The original antibody was generated by CDR grafting of mouse PM-1 antibody onto human REI and NEW framework regions to create rhPM-1.
Specificity:	<p>Tocilizumab binds specifically to both the membrane bound and soluble forms of human IL-6R. The IL6 receptor is a protein complex consisting of an IL-6 receptor subunit (IL6R) and interleukin 6 signal transducer Glycoprotein 130. Interleukin 6 (IL6) is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in immune response.</p> <p>This antibody is derived from the parental mouse clone PM-1 (PM1). Tocilizumab (TCZ) binds and neutralizes IL-6R, resulting in the inhibition of various IL-6-mediated biological activities, including inflammation-related, immunomodulatory and tissue/matrix remodelling effects. This antibody is extensively explored for its therapeutic potential in treatment of rheumatoid arthritis (PMID: 25099958; 9836380). Tocilizumab can be used in ELISA assays and is able to inhibit the growth of IL-6-dependent tumor cell lines. It inhibits sIL-6R and mIL-6R-mediated signaling. A study reported that a combination of tocilizumab and methotrexate (MTX) results in greater inhibition of joint damage and improvement in physical function than does MTX alone (PMID: 21360490). Treatment with tocilizumab results in significant improvement, maintained over time, of polyarticular-course juvenile idiopathic arthritis (pcJIA) signs and symptoms and has a safety profile consistent with that for adults with rheumatoid arthritis (PMID: 24834925).</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated



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Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	interleukin 6 receptor
Database Link:	Entrez Gene 3570 Human P08887
Synonyms:	CD126; gp80; IL-6R-1; IL-6R-alpha; IL6RA; MGC104991
Note:	NOT FOR THERAPEUTIC USE - This is a research-grade biosimilar.