

## Product datasheet for **DM3568P**

### **IL6ra (Extracell. Dom.) Rat Monoclonal Antibody [Clone ID: 14F33]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	14F33
Applications:	IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000. <b>Immunohistochemistry on Frozen Sections:</b> 1/50-1/100.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2
Clonality:	Monoclonal
Immunogen:	Recombinant Mouse protein of IL-6R extracellular domain.
Specificity:	This antibody detects Mouse IL-6R. Other species not tested.
Formulation:	Sterile PBS State: Purified State: Lyophilized purified IgG fraction Stabilizer: None
Reconstitution Method:	Restore with 0.2 ml sterile PBS and the final concentration is 0.5 mg/ml
Purification:	Affinity Chromatography on Protein A/G
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 6 receptor, alpha
Database Link:	<a href="#">Entrez Gene 16194 Mouse P22272</a>



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**Background:**

IL6 exerts its activity through binding to a high affinity receptor complex consisting of two membrane glycoproteins: an 80 kDa IL6 binding receptor protein (IL6R) and a 130 kDa signal transducing protein consisting of a 19 amino acid residue signal peptide (gp130). Human IL6R is a 468 amino acid residue type I membrane protein consisting of a 19 amino acid residue signal peptide, a 339 residue extracellular region, a 28 residue transmembrane region and an 82 residue cytoplasmic region. The ectodomain of IL6R is made up of an immunoglobulin like domain and a cytokine receptor superfamily domain. A naturally occurring soluble form of the IL6R, which binds IL6 and which mediates IL6 signaling through interaction with gp130, is identified in the urine of healthy adult humans. It has also been detected in human and mouse serum as well as in the conditioned medium of various cells including human peripheral blood mononuclear cells, and several T cell or granulocyte/macrophage cell lines. Increased expression of the c-fos and c-myc protooncogenes have been linked to IL6 receptor activation.

**Synonyms:**

Interleukin-6 receptor subunit alpha, IL-6R-alpha, IL-6R 1, IL6 Receptor alpha