RD SYSTEMS a biotechne brand

Human IL-6R alpha Antibody

Recombinant Monoclonal Mouse IgG₁ Clone # 556704R Catalog Number: MAB2271R

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human IL-6R alpha in direct ELISAs.
Source	Recombinant Monoclonal Mouse IgG ₁ Clone # 556704R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli-</i> derived recombinant human IL-6R alpha Arg387-Arg468 Accession # P08887
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	3-25 µg/mL	See Below

DATA

Immunocytochemistry



IL-6R alpha in Human PBMCs. IL-6R alpha was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using Recombinant Mouse Anti-Human IL-6R alpha Monoclonal Antibody (Catalog # MAB2271R) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 	

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

The multi-functional factor interleukin 6 (IL-6) exerts its activities through binding to a high-affinity receptor complex consisting of two membrane glycoproteins: an 80 kDa component receptor that binds IL-6 with low affinity (IL-6 R α) and a signal-transducing component of 130 kDa (gp130) that does not bind IL-6 by itself, but is required for high-affinity binding of IL-6 by the complex (1-4). Within the extracellular domain, human IL-6 R α shares 52% as sequence identity with mouse and rat IL-6 R α .

A soluble form of the IL-6 R α has been found in the urine of healthy adult humans (5). This soluble receptor apparently arises from proteolytic cleavage of membrane-bound IL-6 R α . No naturally-occurring mRNA encoding a truncated form of the IL-6 R α has been reported. Soluble forms of human and murine IL-6 R α s have been constructed, however, by insertion of termination codons into the regions of the IL-6 R α cDNAs encoding the external portions of the receptors and prior to the transmembrane domains. These soluble receptors have been expressed in COS-7 and CHO cells and have been shown to bind to IL-6 in solution and to augment the activity of IL-6 as a result of the binding of the IL-6/IL-6 R α complex to membrane-bound gp130 (6, 7).

References:

- 1. Yamasaki *et al.* (1988) Science **241**:825.
- 2. Baumann et al. (1990) J. Biol. Chem. 265:19853.
- 3. Hibi et al. (1990) Cell 63:1149.
- 4. Schooltink et al. (1991) Eur. J. Biochem. 277:659.
- 5. Novick et al. (1989) J. Exp. Med. 170:1409.
- 6. Yasukawa et al. (1990) J. Biochem. 108:673.
- 7. Saito et al. (1991) J. Immunology 147:168.

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