

Human IL-6 Rα Fluorescein-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 17506

Catalog Number: FAB227F 100 TESTS, 25 TESTS

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human IL-6 Rα in ELISAs and Western blots. In ELISAs, no cross-reactivity or interference was observed with recombinant humal (rh) IL-1α, recombinant mouse (rm) IL-1α, rhIL-1β, rmIL-1β, rhIL-1ra, rhIL-2, rhIL-3, rmIL-3, rhIL-4, rmIL-4, rhIL-5, rmIL-5, rhIL-6, rmIL-6, rhIL-7, rhIL-8, rhIL-9, rmIL-9, rhIL-10, or rhIL-11.	
Source	Monoclonal Mouse IgG ₁ Clone # 17506	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human IL-6 Rα Leu20-Asp339 Accession # P08887	
Conjugate	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm	
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

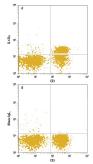
APPLICATIONS

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
Flow Cytometry	10 μL/10 ⁶ cells	See Below

DATA





Detection of IL-6 R α in Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD3 ϵ APC-conjugated Monoclonal Antibody (Catalog # FAB100A) and either (A) Mouse Anti-Human IL-6 R α Fluorescein-conjugated Monoclonal Antibody (Catalog # FAB227F) or (B) Mouse IgG $_1$ Fluorescein Isotype Control (Catalog # IC002F). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied.





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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. Both components of the receptor complex, IL-6 R α and gp130 have been cloned, sequenced, and expressed (1-4).

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 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.
- 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.

