

Human IL-6 Rα Alexa Fluor® 647-conjugated Antibody

Recombinant Monoclonal Mouse IgG, Clone # 17506R

Catalog Number: FAB227RR 100 µg

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 human (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, rmIL-6, rmIL-6, rhIL-7, rmIL-7, rhIL-8, rhIL-9, rmIL-9, rhIL-10, or rhIL-11.			
Source	Recombinant Monoclonal Mouse IgG ₁ Clone # 17506R			
Purification	Protein A or G purified from cell culture supernatant			
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human IL-6 Rα Leu20-Asp339 Accession # P08887			
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm			
Formulation	Supplied 0.2 mg/mL 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.			

		ПС	

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	0.25-1 µg/10 ⁶ cells	U937 Human Cell Line

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
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Stability & Storage Protect from light. Do not freeze

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

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 Rα) 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 Rα 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 and is about 50kDa in size. 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 shave 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.

PRODUCT SPECIFIC NOTICES

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Rev. 2/6/2018 Page 1 of 1

