

Human IL-19 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF1035

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human IL-19 in Western blots. In Western blots, no cross-reactivity with recombinant human IL-10 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human IL-19 Leu25-Ala177 Accession # AAN40906
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.
Please Note: Optimal diluti	ons should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website. Recommended Sample Concentration
Western Blot	0.1 μg/mL Recombinant Human IL-19 (Catalog # 1035-IL)
PREPARATION AND S	STORAGE
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
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.

BACKGROUND

Human Interleukin 19 (IL-19) is a member of the IL-10 family of related cytokines. Its gene contains two alternate translation initiation sites, generating precursors of 215 amino acids (aa) and 177 aa, respectively. Both isoforms are processed to 17 kDa, 153 aa mature molecules. IL-19 contains seven helices and is secreted as a 35 kDa monomer. There are two potential N-linked glycosylation sites, and it is likely that the molecule is glycosylated. Mature human IL-19 shares 69% aa sequence identity with the mature mouse homologue. Although mouse IL-19 is active on human cells, human IL-19 is not active on mouse cells. IL-19 expression is limited to activated keratinocytes and monocytes. IL-19 binds a receptor complex consisting of the IL-20 receptor alpha (IL-20 Rα, also known as IL-20 R1) and the IL-20 receptor beta (IL-20 Rβ or IL-20 R2). This receptor complex is also shared by IL-20 and IL-24. Functionally, IL-19 induces IL-6 and TNF-α production by monocytes, and drives T-helper cell differentiation towards a Th2 response (1-5).

1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution

References:

- 1. Gallagher, G. et al. (2000) Genes Immun. 1:442.
- 2. Gallagher, G. et al. (2004) Int. Immunopharmacol. 4:615.
- 3. Laio, Y-C. et al. (2002) J. Immunol. 169:4288.
- 4. Romer, J. et al. (2003) J. Invest. Dermatol. 121:1306.
- 5. Pestka, S. et al. (2004) Annu. Rev. Immunol. 22:929.



