RD SYSTEMS a biotechne brand

Monoclonal Mouse IgG_{2B} Clone # 152112 Catalog Number: MAB1035

DESCRIPTION

| DESCRIPTION | | | |
|--------------------|---|--|--|
| Species Reactivity | Human | | |
| Specificity | Detects human IL-19 in direct ELISAs. | | |
| Source | Monoclonal Mouse IgG _{2B} Clone # 152112 | | |
| Purification | Protein A or G purified from hybridoma culture supernatant | | |
| Immunogen | <i>E. coli</i> -derived recombinant human IL-19 Leu25-Ala177 Accession # AAN40906 | | |
| Endotoxin Level | <0.10 EU per 1 µg of the antibody by the LAL method. | | |
| 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

| Recommended Concentration | Sample | |
|--|---|--|
| 2.5 µg/10 ⁶ cells | Human LPS-treated peripheral blood mononuclear cells fixed with paraformaldehyde and permeabilized with saponin | |
| Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfer with conjugation. | | |
| with human IL-20 R | ility to neutralize IL-19-induced proliferation in the BaF3 mouse pro-B cell line co-transfected α and IL-20 R β . The Neutralization Dose (ND ₅₀) is typically 0.2-0.5 µg/mL in the presence of | |
| | 2.5 µg/10 ⁶ cells Ready to be labeled with conjugation. Measured by its ab | |

DATA



Cell Proliferation Induced by IL-19 and Neutralization by Human IL-19 Antibody. Recombinant Human IL-19 (Catalog # 1035-IL) stimulates proliferation in the BaF3 mouse pro-B cell line co-transfected with . human IL-20 Rα and IL-20 Rβ in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Human IL-19 (3 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human IL-19 Monoclonal Antibody (Catalog # MAB1035). The ND₅₀ is typically 0.2-0.5 µg/mL.

| 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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Human IL-19 Antibody

Monoclonal Mouse IgG_{2B} Clone # 152112 Catalog Number: MAB1035

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 R α , also known as IL-20 R1) and the IL-20 receptor beta (IL-20 R β 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).

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.

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