

## Mouse IL-12/IL-23 p40 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF499

| DESCRIPTION                                     |   |  |
|---|---|--|
| Species Reactivity                              | Mouse   |  |
| Specificity                                     | Detects mouse IL-12 p40 in ELISAs and Western blots. In sandwich immunoassays, approximately 30% cross-reactivity with recombinant mouse IL-12 p70 is observed. |  |
| Source  | Polyclonal Goat IgG   |  |
| Purification                                    | Antigen Affinity-purified   |  |
| Immunogen                                       | S. frugiperda insect ovarian cell line Sf 21-derived recombinant mouse IL-12 p40 Met23-Ser355 Accession # P43432  |  |
| Formulation                                     | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.                                      |  |
| APPLICATIONS                                    |   |  |
| Please Note: Optimal dilution                   | ions should be determined by each laboratory for each applicatio  | on. General Protocols are available in the Technical Information section on our website. |
|   | Recommended<br>Concentration  | Sample   |
| Western Blot                                    | 0.1 μg/mL   | Recombinant Mouse IL-12/IL-23 p40 Homodimer (Catalog # 499-ML)                           |
| Mouse IL-12/IL-23 p4                            | 40 Nonallele-specific Sandwich Immunoassay  | Reagent  |
| ELISA Capture                                   | 2-8 μg/mL   | Mouse IL-12/IL-23 p40 Antibody (Catalog # MAB4991)                                       |
| ELISA Detection                                 | 0.1-0.4 μg/mL   | Mouse IL-12/IL-23 p40 Biotinylated Antibody (Catalog # BAF499)                           |
| Standard  |   | Recombinant Mouse IL-12/IL-23 p40 Homodimer (Catalog # 499-ML)                           |
| Mouse IL-12/IL-23 p4                            | 40 Allele-specific Sandwich Immunoassay   | Reagent  |
| ELISA Capture                                   | 2-8 µg/mL   | Mouse IL-12/IL-23 p40 Antibody (Catalog # MAB499)  |
| ELISA Detection                                 | 0.1-0.4 μg/mL   | Mouse IL-12/IL-23 p40 Biotinylated Antibody (Catalog # BAF499)                           |
| Standard  |   | Recombinant Mouse IL-12/IL-23 p40 Homodimer (Catalog # 499-ML)                           |
| Mouse IL-23 Sandwich Immunoassay                |   | Reagent  |
| ELISA Capture                                   | 2-8 μg/mL   | Mouse IL-23 Antibody (Catalog # MAB1887)   |
| ELISA Detection                                 | 0.1-0.4 μg/mL   | Mouse IL-12/IL-23 p40 Biotinylated Antibody (Catalog # BAF499)                           |
|   |   | December and Marcon II. 00 (Ontales # 4007 MI)   |
| Standard<br>——————————————————————————————————— |   | Recombinant Mouse IL-23 (Catalog # 1887-ML)  |
| Standard PREPARATION AND S                      | STORAGE   | Recombinant Mouse IL-23 (Catalog # 1887-ML)  |
|   | STORAGE  Reconstitute at 0.2 mg/mL in sterile PBS.  | Recombinant wouse IL-23 (Catalog # 1887-WL)  |

## BACKGROUND

Interleukin 12, also known as natural killer cell stimulatory factor (NKSF) or cytotoxic lymphocyte maturation factor (CLMF), is a pleiotropic cytokine originally identified in the medium of activated human B lymphoblastoid cell lines. IL-12 has multiple effects on T cells and NK cells and is a key mediator in the development of Th1 cells. IL-12 is a heterodimeric cytokine containing two disulfide-linked subunits, p35 and p40. Human and mouse IL-12 share 70% and 60% amino acid sequence identity in their p40 and p35 subunits, respectively. Although mouse IL-12 is active on human or mouse IL-12 responsive cells, human IL-12 is not active on mouse cells. The disulfide-linked mouse p40 homodimer can bind to IL-12 receptors and is an antagonist of IL-12 activities *in vitro*. The mouse p40 monomer is at least ten times less active than the homodimer as an IL-12 antagonist. At the present time, the existence and the physiological role of mouse p40 homodimer *in vivo* remains to be determined.

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