



Lot Specific Information

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|-----------------------|---|
| Lot Number: | Lot Specific* |
| Volume: | Lot Specific* |
| Concentration: | Lot Specific* (generally 4 to 11 mg/ml) * |
| Total Protein: | Lot Specific* |

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

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|--|---|
| Catalog Number: | BE0199 |
| Clone: | BVD6-24G2 |
| Isotype: | Rat IgG1, κ |
| Recommended Isotype Control(s): | InVivoMAb rat IgG1 isotype control, anti-horseradish peroxidase |
| Recommended Dilution Buffer: | InVivoPure pH 7.0 Dilution Buffer |
| Immunogen: | Recombinant mouse IL-4 |
| Reported Applications: | ELISA ELISPOT Flow cytometry |
| Formulation: | PBS, pH 7.0 Contains no stabilizers or preservatives |
| Endotoxin: | <2EU/mg (<0.002EU/ μ g) Determined by LAL gel clotting assay |
| Purity: | >95% Determined by SDS-PAGE |
| Sterility: | 0.2 μ M filtered |
| Production: | Purified from tissue culture supernatant in an animal free facility |
| Purification: | Protein G |
| RRID: | AB_10949184 |
| Molecular Weight: | 150 kDa |

Description

The BVD6-24G2 monoclonal antibody reacts with mouse IL-4 (interleukin-4) a multifunctional 14 kDa cytokine. IL-4 is expressed primarily by activated Th2 cells and NK cells, and at lower levels by mast cells, and basophils. IL-4 signals through the IL-4Ra. Upon receptor binding IL-4 stimulates activated B and T lymphocyte proliferation, and the differentiation of B cells into plasma cells. It also induces B cell class switching to IgE, and up-regulates MHC class II production while decreasing the production of Th1 cells, macrophages, IFN γ , and dendritic cell IL-12. Like other Th2 associated cytokines, IL-4 is involved in the airway inflammation observed in the lungs of patients with allergic asthma. The BVD6-24G2 antibody cannot neutralize the bioactivity of natural or recombinant IL-4.

Shelf-life and Storage

Store at the stock concentration at 4°C. **Do not freeze.**
All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at bxcell.com/faqs.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit <https://bxcell.com/product/m-il-4-2/#references> or scan the QR code below.

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