Technical Data Sheet

InVivoMAb anti-mouse myeloperoxidase (MPO)

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.

Lot Specific Information

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

Catalog Number:	**BE0392**
Clone:	**6G4**
Isotype:	Mouse IgG2c, κ
Recommended Isotype Control(s):	InVivoMAb mouse IgG2c isotype control, anti-dengue virus
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Murine MPO
Reported Applications:	*in vivo* administration *in vitro* administration Immunofluorescence
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	<2EU/mg (<0.002EU/µg) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 µm filtration
Purification:	Protein A
Molecular Weight:	150 kDa

Description

The 6G4 monoclonal antibody reacts with mouse myeloperoxidase (MPO). MPO is a peroxidase enzyme and a member of the subfamily of peroxidases. It is expressed primarily by neutrophils, but also by monocytes, macrophages, and some types of leukemic cells. MPO is a lysosomal protein stored in azurophilic granules of the neutrophil and released into the extracellular space during degranulation. MPO catalyzes the hydrogen peroxide dependent formation of hypochlorous acid and other reactive species. It is used by neutrophils to kill bacteria and other pathogens. Antibodies against MPO have been implicated in various types of vasculitis. Recent studies have reported an association between elevated myeloperoxidase levels and the severity of coronary artery disease. The 6G4 antibody is useful for inducing anti-neutrophil associated antibody (ANCA) mediated vasculitis in mice and is usually used in combination with the anti-mouse MPO 6D1 antibody for this purpose.

Storage

Store at the stock concentration at 4°C. **Do not freeze.**
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 https://bioxcell.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.

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