Technical Data Sheet

InVivoMAb anti-mouse/rat MHC Class II (I-Ek/RT1-D)

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:	**BE0167**
Clone:	**14-4-4S (HB-32)**
Isotype:	Mouse IgG2a, κ
Recommended Isotype Control(s):	InVivoMAb mouse IgG2a isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	C3H mouse skin graft and spleen cells
Reported Applications:	*in vivo* blocking of antigen presentation Flow cytometry
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤1EU/mg (≤0.001EU/µg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 µm filtered
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
RRID:	AB_10950190
Molecular Weight:	150 kDa

Description

The 14-4-4S monoclonal antibody reacts with mouse MHC Class II alloantigen I-Ek and the rat MHC class II alloantigen RT1D. These MHC class II molecules are expressed primarily on the surface of B lymphocytes, macrophages, dendritic cells and other antigen presenting cells as well as a subset of T cells from H-2k bearing mice. These MHC molecules play a role in antigen presentation to T cells. The 14-4-4S antibody has been reported to block antigen presentation and induce differentiation of mouse cells expressing I-Ek.

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.

Application References

For a complete list of references, visit https://bioxcell.com/be0167?bxcs=9k1b3a#tab_references or scan the QR code below.

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