Technical Data Sheet

*InVivo*MAb anti-mouse/rat MHC Class II (I-E^k/RT1-D)

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 (HB32)**
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:	<2EU/mg (<0.002EU/µg) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 µM filtered
Production:	Purified from tissue 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-E^k 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-2^k 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-E^k.

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/i-e-k/#references or scan the QR code below.

Bio X Cell, Inc.

bxcell.com
1.866.787.3444
customerservice@bxcell.com