Technical Data Sheet

InVivoMAb anti-mouse MHC Class I (H-2Kb/H-2Db)

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:	**BE0468**
Clone:	**28-8-6S**
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.SW mouse splenocytes
Reported Applications:	*in vivo* functional assays *in vitro* functional assays Complement-dependent cytotoxicity (CDC) Immunohistochemistry (frozen) Flow cytometry Immunopeptidomics Immunoprecipitation
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:	
Molecular Weight:	150 kDa

Description

The 28-8-6S monoclonal antibody reacts with the mouse H-2Kb and H-2Db MHC Class I alloantigens. Murine MHC I α chain is composed of H-2 with K, D, and L loci, thereby forming H-2K, H-2D, and H-2L genes, which are considered highly polymorphic because they carry mouse strain-specific haplotypes designated by a lower-case letter (e.g., a, b, d, k, q, s, etc.). At the protein level, the MHC Class I antigen is a cell surface receptor expressed by all nucleated cells at varying levels in mice of the H-2Kb and H-2Db haplotype, e.g., C57BL/6 mice. MHC I plays a central role in antigen presentation to T cells, thereby allowing the immune system to recognize and respond to foreign pathogens, infected cells, or self-antigens. MHC I is also involved in neuronal development, specifically in synaptic elimination or synaptic pruning. In experimental therapeutics, personalized cancer vaccines and other immunotherapies can be developed by taking advantage of the antigen specificity of the interaction between MHC I molecules, peptides, and TCR. The 28-8-6S monoclonal antibody has been extensively used to study the role of H-2Kb and H-2Db alloantigens. This antibody binds strongly with H-2Kb but has a relatively lower affinity for H-2Db. The 28-8-6S antibody can only recognize H-2Db if β2m is present. This antibody does not cross-react with f, k, p, q, r, and s haplotypes.

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/be0468?bxcs=9k1b3a#tab_references or scan the QR code below.

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