Technical Data Sheet

InVivoMAb anti-mouse CD132 (common γ chain)

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:	**BE0271**
Clone:	**3E12**
Isotype:	Rat IgG2b
Recommended Isotype Control(s):	InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Rat myeloma YB2/0 transfected with mouse cytoplasmic-tailless CD132
Reported Applications:	*in vivo* γc blockade Functional assays Immunoprecipitation 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 filtration
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
RRID:	AB_2687794
Molecular Weight:	150 kDa

Description

The 3E12 monoclonal antibody reacts with mouse CD132 also known as the common gamma chain and IL-2 receptor gamma chain. CD132 is a 64-70 kDa type I transmembrane glycoprotein belonging to the Ig superfamily. It is expressed by a wide range of cells including T and B lymphocytes, NK cells, monocytes, and granulocytes. CD132 is an essential subunit of the receptor complexes for at least six different interleukin receptors: IL-2, IL-4, IL-7, IL-9, IL-15 and IL-21 receptors. Ligand binding induces tyrosine phosphorylation and initiates signaling through the JAK/STAT pathway. The 3E12 antibody has been reported to block the bioactivity of IL-4, IL-9, and IL-15 and inhibit the ligand/receptor binding of IL-4 and IL-7.

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

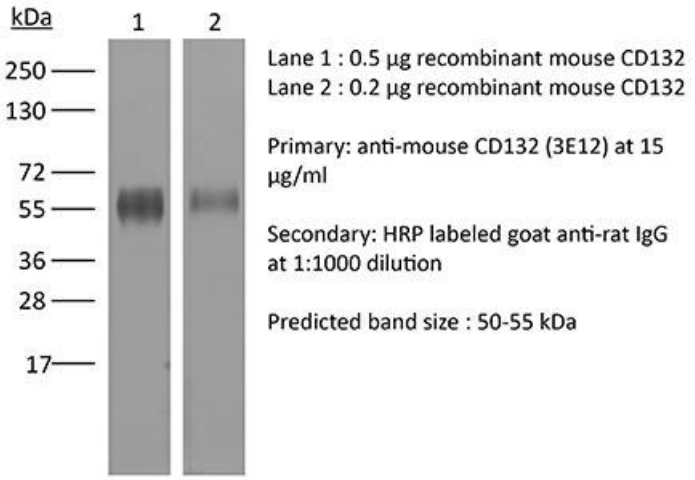
dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/be0271?bxcs=9k1b3a#tab_references or scan the QR code below.

Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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