Technical Data Sheet

InVivoMAb anti-mouse CD172a (SIRPα)

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:	**BE0322**
Clone:	**P84**
Isotype:	Rat IgG1, κ
Recommended Isotype Control(s):	InVivoMAb rat IgG1 isotype control, anti-horseradish peroxidase
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Mouse brain membrane protein
Reported Applications:	*in vivo* SIRPα blocking *in vitro* SIRPα blocking Western blot 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 A
RRID:	AB_2819049
Molecular Weight:	150 kDa

Description

The P84 monoclonal antibody reacts with Signal-Regulatory Protein α (SIRPα), also known as CD172a. SIRPα is a type I transmembrane glycoprotein expressed on monocytes, macrophages, and dendritic cells. Neurons and other tissues of the central nervous system have also been shown to express SIRPα. Its ligand, CD47 is expressed by a wide variety of cells. SIRPα and CD47 regulate dendritic cell-mediated T cell activation, neutrophil migration, and phagocytosis. SIRPα diffuses laterally on the macrophage membrane and accumulates at a phagocytic synapse to bind CD47 which inhibits phagocytosis by macrophages. Anti-SIRPα antibodies that block the interaction of SIRPα with CD47 have been shown to suppress tumor formation in mice. The P84 antibody has been shown to have neutralizing activity in vivo and in vitro.

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

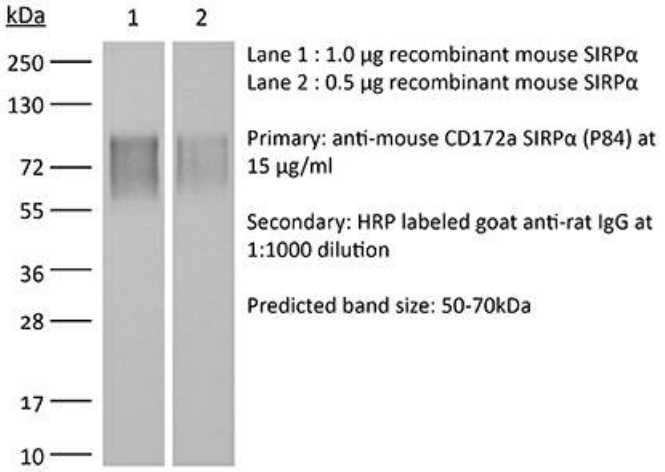
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/be0322?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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