

Technical Data Sheet

InVivoMAb anti-mouse CD172a (SIRP α)



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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 Website Link: <https://bioxcell.com/invivomab-anti-mouse-cd172a-sirp-alpha-be0322>

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* SIRP α blocking
in vitro SIRP α blocking
Western blot
Immunoprecipitation
Flow cytometry
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: ≤ 1 EU/mg (≤ 0.001 EU/ μ g)
Determined by LAL assay
Purity: $\geq 95\%$
Determined by SDS-PAGE
Sterility: 0.2 μ m filtration
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein A
RRID: [AB_2819049](https://abnova.com/AB_2819049)
Molecular Weight: 150 kDa

Description

The P84 monoclonal antibody reacts with Signal-Regulatory Protein α (SIRP α), also known as CD172a. SIRP α 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 SIRP α . Its ligand, CD47 is expressed by a wide variety of cells. SIRP α and CD47 regulate dendritic cell-mediated T cell activation, neutrophil migration, and phagocytosis. SIRP α diffuses laterally on the macrophage membrane and accumulates at a phagocytic synapse to bind CD47 which inhibits phagocytosis by macrophages. Anti-SIRP α antibodies that block the interaction of SIRP α 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

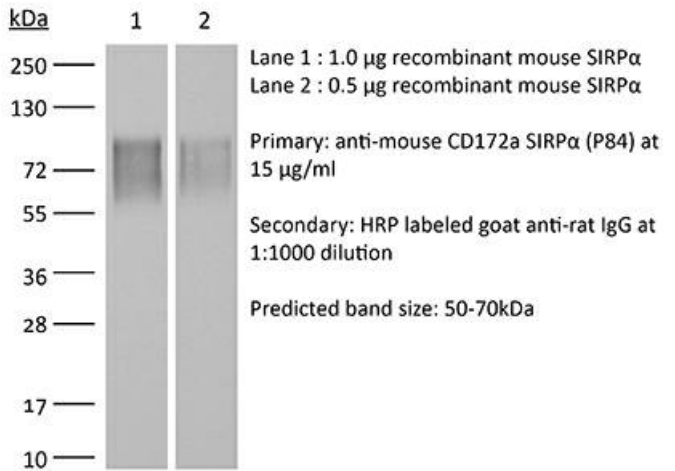
For a complete list of references, visit

https://bioxcell.com/invivomab-anti-mouse-cd172a-sirp-alpha-be0322?utm_source=cr9k1b#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.



Bio X Cell, LLC

<https://bioxcell.com>

+1-866-787-3444

customerservice@bioxcell.com

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