

Technical Data Sheet



RecombiMAb anti-mouse CD172a (SIRP α) (LALA-PG)

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: CP072
Clone: P84-CP072
Isotype: Mouse IgG2a, κ
Recommended Isotype Control(s): RecombiMAb mouse IgG2a (LALA-PG) isotype control, anti-hen egg lysozyme
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*
*Reported for the original rat IgG1 P84 antibody

Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives

Endotoxin: ≤ 0.5 EU/mg (≤ 0.0005 EU/ μ g)
Determined by LAL gel clotting assay

Purity: $\geq 95\%$
Determined by SDS-PAGE

Sterility: 0.2 μ m filtration

Production: Purified from HEK293 cell supernatant in an animal-free facility

Purification: Protein G

Aggregation: $< 5\%$
Determined by SEC

RRID:

Molecular Weight: 150 kDa

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

The P84-CP072 monoclonal antibody is a chimeric version of the original P84 antibody. The variable domain sequences are identical to the original P84 antibody but the constant region sequences have been switched from rat IgG1 to mouse IgG2a. The P84-CP072 antibody also contains a LALA-PG mutation in the Fc fragment rendering it unable to bind to endogenous Fc γ receptors. The P84-CP072 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 original 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.

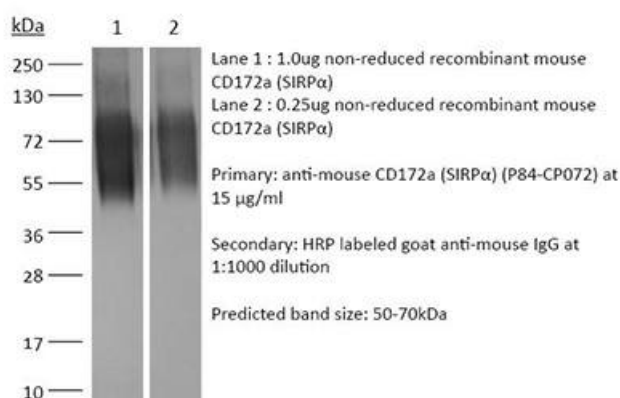
Application References

For a complete list of references, visit https://bioxcell.com/cp072?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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Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.

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