

Mouse Leishmania A2 Monoclonal Antibody

Leishmania A2 Mouse Monoclonal Antibody (C9)

CATALOG #	HOST	APPLICATIONS
AAA77830	Mouse	Western Blot, Immunoprecipitation, Immunofluorescence

PRODUCT SYNONYMS

Leishmania A2; Monoclonal Antibody; Leishmania A2 Mouse Monoclonal Antibody (C9); anti-Leishmania A2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	C9
Specificity	A sensitive antibody to Leishmania amastigote-specific A2 protein. This sequence can also be used as tag if cloned with the protein of interest. This sequence is particular to the parasite and therefore the antibody has no crossreactivity with mammalian proteins. It is specific to A2 protein from Leishmania donovani and in a highly probable manner to other species which express A2. It won't be detected in species where the A2 is non-expressed pseudogenes such as Leishmania major.
Form/Format	Lyophilized protein G purified in PBS pH7.4
Applicable Applications for anti-Leishmania A2 antibody	WB (Western Blot), IP (Immunoprecipitation), IF (Immunofluorescence)
Immunogen	The anti-A2 antibody recognizes only the amastigote form of the A2 protein. The anti-A2 antibody recognizes the sequence QSVGPLSVGP from the parasite, Leishmania donovani.
Target	Leishmania A2
Preparation and Storage	Lyophilized antibodies can be kept at 4°C for up to 3 months and should be kept at -20°C for long-term storage (2 years). To avoid freeze-thaw cycles, reconstituted antibodies should be aliquoted before freezing for long-term (1 year) storage (-80°C) or kept at 4°C for short-term usage (2 months). For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made with the assay buffer. After the maximum long-term storage period (2 years lyophilized or 1 year reconstituted) antibodies should be tested in your assay with a standard sample to verify if you have noticed any decrease in their efficacy. To limit antibody loss or degradation, BSA (final concentration 1%) and sodium azide (final concentration 0.02%) can be added to the suggested first dilution. It is important to first verify if those preservatives are compatible with your assay.

ADDITIONAL INFORMATION

Related Product Information for anti-Leishmania A2 antibody	Leishmania donovani is a protozoa parasite responsible for human visceral leishmaniasis. During their life cycle the parasites exist in 2 forms: as flagellated promastigote within the sandfly vector and as non-flagellated amastigote in the macrophage phagolysosomal compartment of the mammalian host. A2 protein is an amastigote-specific virulence factor that is required for Leishmania donovani parasite survival in a mammalian host.
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References

1. Jaiswal AK-Immunological consequences of stress-related proteins-cytosolic trypanothione peroxidase and chaperonin TCP20--identified in splenic amastigotes.
2. Kumari S-Leishmania donovani: immunostimulatory cellular responses of membrane and soluble protein fractions of splenic amastigotes in cured patient and ham.
3. McCall LI and Matlashewski G-Localization and induction of the A2 virulence factor in Leishmania: evidence that A2 is a stress response protein.
4. Nascimento M-Identification and characterization of a protein-tyrosine phosphatase in Leishmania: Involvement in virulence.
5. Zhang WW-Comparison of the A2 gene locus in Leishmania donovani and Leishmania major and its control over cutaneous infection.
6. Carvalho FA-Diagnosis of American visceral leishmaniasis in humans and dogs using the recombinant Leishmania donovani A2 antigen.
7. Zhang WW and Matlashewski G-Loss of virulence in Leishmania donovani deficient in an amastigote-specific protein, A2.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/leishmania-a2-antibody-clone-c9-western-blot-immunoprecipitation-immunofluorescence-elisa/77830>