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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-CPS-500 [18.44] Ab03424-21.0-BT

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgM, Kappa

Clone Number: 18.44

Alternative Name(s) of Target: β -mannosylated glycolipid, CPS-500 antigen

UniProt Accession Number of Target Protein:

Published Application(s): electron microscopy, therapeutic, WB, ELISA, IF

Published Species Reactivity: *Cryptosporidium parvum*

Immunogen: The original antibody was generated by immunizing mice with whole cells of *Cryptosporidium parvum*.

Specificity: This antibody binds the CPS-500 antigen of sporozoites and merozoites of *Cryptosporidium parvum*. *Cryptosporidium parvum* is a coccidian parasite that infects intestinal epithelium and causes diarrheal disease in humans and other agriculturally important food animals for which specific therapy and immunoprophylaxis are unavailable. Cryptosporidiosis is self-limiting in hosts with normal immune systems; however, in neonates, the elderly, and hosts having congenital or acquired immunodeficiency diseases or chemotherapy-induced immunosuppression, cryptosporidial enterocolitis may become chronic and have severe consequences.

Application Notes: This antibody reacts with both sporozoites and merozoites of *C. parvum* in an indirect immunofluorescence assay. This antibody is capable of neutralizing sporozoites and merozoites in a time dependent manner (PMID: 2193057; 2473130). This antibody can be used for the identification of sporozoites, merozoites and CPS-500 antigen of *C. parvum* using western blot. The identification of sporozoite-neutralizing antibody was done using ELISA (PMID: 20086143). This antibody in combination with PLA2 or LL37 was also used in the generation of a biocide fusion proteins to kill *C. parvum* sporozoites in vitro and in vivo (PMID: 20086143).

Antibody First Published in: Bjerneby et al. *Cryptosporidium parvum* merozoites share neutralization-sensitive epitopes with sporozoites. *J Immunol.* 1990 Jul 1;145(1):298-304. [PMID:2193057](#)

Note on publication: Describes the use of antibodies to determine common epitopes shared between merozoites and sporozoites of *C. parvum*.

Product Form

Size: 500 µg Purified antibody in bulk size.

Purification: Affinity Purified using a recombinant lectin column

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.