



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-CPS-500 [18.44] Ab03424-1.1-BT

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**Isotype and Format:** Mouse IgG1, Kappa

**Clone Number:** 18.44

**Alternative Name(s) of Target:**  $\beta$ -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:** Bjorneby 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:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**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.