



# 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

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## Anti-Apical complex glycoprotein CSL [3E2] Standard Size Ab03423-1.1

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

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

**Clone Number:** 3E2

**Alternative Name(s) of Target:** CSL;  $\alpha$ CSL; Apical complex glycoprotein, CSL (circumsporozoite-like) antigen

**UniProt Accession Number of Target Protein:**

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

**Published Species Reactivity:** *Cryptosporidium parvum*

**Immunogen:** The original antibody was generated by immunizing mice with GP25-200 of *Cryptosporidium parvum*.

**Specificity:** This antibody binds the apical complex glycoprotein CSL of *Cryptosporidium parvum*. The apicomplexan protozoan *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:** Apical complex glycoprotein antigen of *Cryptosporidium parvum* is critical to infectivity and targets protective immunity. This antibody exhibited morphologic changes in sporozoites and merozoites characterized by rapid and progressive formation, posterior movement, and release of membranous Ag-mAb precipitates. This antibody was capable of recognizing 46-770 kDa sporozoite antigens and 1300 kDa antigen soluble glycoprotein exoantigen (CSL) expressed by merozoites in a western blot (PMID: 9029117). This antibody elicited circumsporozoite precipitate (CSP)-like reaction which is characterized by the progressive posterior formation and release of membranous antigen-MAb complexes, after which zoites are rendered noninfective. This antibody is capable of neutralizing *C. parvum* in vitro and also capable of passively protecting against oocyst challenge and infection in vivo. The identification of sporozoite-neutralizing antibody was done using ELISA (PMID: 10768951). This antibody

was reported to be highly effective in reducing, but not eliminating, persistent *C. parvum* infection (PMID: 11796330). 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:** Riggs et al. Protective monoclonal antibody defines a circumsporozoite-like glycoprotein exoantigen of *Cryptosporidium parvum* sporozoites and merozoites. *J Immunol.* 1997 Feb 15;158(4):1787-95. [PMID:9029117](#)

**Note on publication:** Describes the generation of neutralizing antibodies against *C. parvum* and their role in providing passive immunization against cryptosporidiosis.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. 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.