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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Apical complex glycoprotein CSL [3E2] Ab03423-23.0-BT

This chimeric rabbit 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: Rabbit IgG, Kappa

Clone Number: 3E2

Alternative Name(s) of Target: CSL; α 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: 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.