Datasheet: MCA2826

Description: MOUSE ANTI PLASMODIUM VIVAX CSP

Specificity: PLASMODIUM VIVAX CSP

Other names: CIRCUMSPOROZOITE PROTEIN

Format: Purified

Product Type: Monoclonal Antibody

Clone: PVC-1

Isotype: IgG1

Quantity: 0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<td>Functional Assays</td>
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Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species: Protozoan

Product Form: Purified IgG - liquid

Preparation: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers: 0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations: IgG concentration 0.5mg/ml

Specificity: Mouse anti Plasmodium vivax CSP antibody, clone PVC-1 recognizes the circumsporozoite protein (CSP) of Plasmodium vivax. Outside sub-Saharan Africa, where P. falciparum infection is most common, P. vivax is the most common cause of malaria infection. While not as deadly as P.
*falciparum*, it does negatively affect human health. Malaria infection is initiated when an infected *Anopheles* mosquito injects sporozoites into a person’s blood during a blood meal. The sporozoites migrate to and infect hepatocytes where they multiply asexually. The CSP is the major surface protein of sporozoites and form a dense coat on the parasite’s surface. The CSP is involved in the motility of the sporozoite and the invasion of target cells. It is also required for sporozoite development in the mosquito. The protein has been extensively studied as a vaccine candidate. Vaccination with irradiated sporozoites has been shown to protect against malarial parasites with the sera of protected individuals recognising CSP.

**Storage**

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG (STAR77...) [HRP](https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf)
- Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf)
- Goat Anti Mouse IgG (STAR76...) [RPE](https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf)
- Goat Anti Mouse IgG (STAR70...) [FITC](https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC, HRP](https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf)
- Human Anti Mouse IgG1 (HCA036...) [HRP](https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf)