



CS protein (PVC-1): sc-51854

BACKGROUND

The circumsporozoite (CS) protein is a cell surface protein of the sporozoite, the stage of the life cycle of malaria parasites (*Plasmodium* spp.) that infects the vertebrate host. The sporozoite stage of the *Plasmodium* parasite is formed by budding from a multinucleate oocyst in the mosquito midgut. Sporozoites must infect the salivary glands of the mosquito vector and the liver of the mammalian host; both events depend on the CS protein. The amounts of CS protein correlate with the extent of development of the inner membranes and associated microtubules underneath the oocyst outer membrane, which normally demarcate focal budding sites.

REFERENCES

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SOURCE

CS protein (PVC-1) is a mouse monoclonal antibody raised against recombinant CS protein of *Plasmodium vivax* origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

CS protein (PVC-1) is recommended for detection of CS protein of *Plasmodium vivax* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Molecular Weight of CS protein: 54 kDa.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.