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Anti-Apical membrane antigen 1 [F8.12.19] Standard Size Ab03274-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: F8.12.19

Alternative Name(s) of Target: AMA1;AMA-1; Apical merozoite antigen 1;

UniProt Accession Number of Target Protein: Q9BIM8; Q9TY14

Published Application(s): SPR, WB, ELISA, IF

Published Species Reactivity: Plasmodium spp

Immunogen: The original antibody was generated by immunizing BALB/c mice with recombinant ectoplasmic region of AMA1 from Plasmodium vivax.

Specificity: This antibody recognizes a discontinuous conformational epitope located on domain III of the ectoplasmic region of the apical membrane antigen 1 (AMA1) of Plasmodium vivax and also cross reacts with AMA1 from Plasmodium knowlesi, Plasmodium cynomolgi, Plasmodium berghei and Plasmodium falciparum. AMA1 is involved in parasite invasion of erythrocytes.

Application Notes: This antibody can recognize AMA1 of Plasmodium vivax, Plasmodium knowlesi, Plasmodium cynomolgi, Plasmodium berghei and Plasmodium falciparum in an immunofluorescence assay on mature schizonts. The binding region is a discontinuous epitope located on domain III of the ectoplasmic region, the major component being a loop containing a cystine knot. The binding of F8.12.19 to recombinant AMA1 from both P. vivax and P. falciparum was measured by surface plasmon resonance. This antibody shows no function-blocking effect was detected in ex vivo parasite growth inhibition assays. (PMID: 17229439). This antibody a dilution of 1:16,000 was used for the detection of recombinant PvAMA-1 and recombinant PvAMA-DII-III using dot-blot and ELISA assays (PMID: 28855657). This antibody was also used for the identification of PfAMA1 using western blot (PMID: 25236489).

Antibody First Published in: Igonet et al. Cross-reactivity studies of an anti-Plasmodium vivax apical membrane antigen 1 monoclonal antibody: binding and structural characterization. J Mol Biol. 2007 Mar 9;366(5):1523-37. [PMID:17229439](#)

Note on publication: This paper analysis the cross reactivity of an anti-AMA1 antibody.

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.