



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-Apical membrane antigen 1 [F8.12.19] Standard Size Ab03274-1.1

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