

## Anti-PfRH5 [QA1] Standard Size Ab00465-1.1

This chimeric mouse antibody was made using the variable domain sequences of the original Rabbit IgG format, for improved compatibility with existing reagents, assays and techniques.

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

**Clone Number:** QA1

**Alternative Name(s) of Target:** P. falciparum RH5; Plasmodium falciparum Reticulocyte-binding Protein Homologue 5

**UniProt Accession Number of Target Protein:** B2L3N7

**Published Application(s):** Block, ELISA

**Published Species Reactivity:** Plasmodium falciparum

**Immunogen:** Human adenovirus serotype 5 (AdHu5).

**Specificity:**

**Application Notes:** The antibody binds specifically to PfRH5, a member of the RH family of proteins of the Plasmodium falciparum which interacts with the surface protein basigin (CD147) of erythrocytes. The interaction between the two proteins is necessary for the parasitic invasion of erythrocytes, known to give rise to the pathology of malaria. The antibody 9AD4 inhibits parasitic growth and the interaction of PfRH5 and basigin.

**Antibody First Published in:** Douglas AD, Williams AR, Knuepfer E, Illingworth JJ, Furze JM, Crosnier C, Choudhary P, Bustamante LY, Zakutansky SE, Awuah DK, Alanine DG, Theron M, Worth A, Shimkets R, Rayner JC, Holder AA, Wright GJ, Draper SJ. Neutralization of Plasmodium falciparum merozoites by antibodies against PfRH5. J Immunol. 2014 Jan 1;192(1):245-58. [PMID:24293631](#)

**Note on publication:** Describes the role of the reticulocyte-binding protein homologue family of proteins found in Plasmodium falciparum, of which RH5 is necessary for erythrocyte invasion. This is essential to the life cycle of the parasite, and is responsible for the development of malaria. Antibodies against PfRH5, such as 9AD4 and QA1, prevent parasite growth and have the potential to be used therapeutically in malaria vaccines.

## 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.