

## Anti-MSP2 [6D8] Standard Size Ab00804-23.0

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:** 6D8

**Alternative Name(s) of Target:** Merozoite surface protein 2

**UniProt Accession Number of Target Protein:** Q1WG90

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

**Published Species Reactivity:** Plasmodium falciparum

**Immunogen:** The 6D8 hybridoma cell line was generated from the fusion of Sp2/0 myeloma cells with spleen cells derived from female CBA mice immunized with polymeric recombinant 3D7 MSP2 (Ag1642). The hybridoma was selected for its ability to bind monomeric and polymeric Ag1642 (3D7 & FC27) by ELISA.

**Specificity:** 6D8 reacts with both 3D7 and FC27 recombinant MSP2, and preferentially with monomeric MSP2. The antibody binds to an epitope found at the conserved N-terminal region consisting of the sequence FINNAYNMSIRRS (aa 11-23) - the binding affinity for this sequence is 6 nM. MSP2 is a highly expressed and intrinsically disordered GPI-anchored membrane protein which is categorized into 2 allelic families/polymorphisms: 3D7 and FC27.

**Application Notes:** 6D8 reacts strongly and equivalently with both 3D7 and FC27 recombinant MSP2 by ELISA. 6D8 gives weak and no IFA signal on the parasite (i.e. not recombinant) FC27 and 3D7 MSP2 respectively, due to its inaccessibility on the merozoite surface. 6D8 can be used to detect recombinant FC27 and 3D7 MSP2 which has been subjected to SDS-PAGE under non-reducing conditions. Parasite FC27 MSP reactivity with 6D8 is enhanced in western blots when carried out in reducing conditions. 6D8 can be used to detect MSP2 by immunofluorescence.

**Antibody First Published in:** Adda et al. Antigenic characterization of an intrinsically unstructured protein, Plasmodium falciparum merozoite surface protein 2. Infect Immun. 2012 Dec;80(12):4177-85.

[PMID:22966050](#)

**Note on publication:** Describes the generation of a panel of antibodies against MSP2. Binding analyses of both recombinant and native MSP2 was performed.

## 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.