

## PfHsp70 Polyclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 11147

**Size:** 100ug in PBS (1mg/ml), pH 7.4, 50% glycerol, 0.09% sodium azide. Purified by Protein A affinity chromatography.

### BACKGROUND

*Plasmodium falciparum* expresses two prominent heat shock proteins: heat shock protein 70 (PfHsp70) and heat shock protein 90 (PfHsp90). Both of these proteins have been implicated in the development and pathogenesis of malaria. PfHsp70-1 is the major cytosolic Hsp70 in *Plasmodium falciparum*. It is abundantly expressed in the blood stages of the parasite and appears to constitute approx. 1-2% of total parasite protein. It is found in *P. falciparum* in complexes with PfHsp90 and PfHsp40. The transition from the cold blooded mosquito vector to a host represents physiological stress to the parasite, and, additionally, malaria blood stage infection is characterized by intense fever periods. In recent years, it has become clear that heat shock proteins play an essential role during the parasite's life cycle.

### SPECIFICATION SUMMARY

**Antigen:** His-tagged C-terminal amino acids 365-681 of *P. falciparum* Hsp70 (Accession no. M19753).

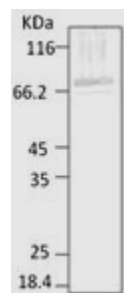
**Host Species:** Rabbit

### SPECIFICITY

This antibody recognizes *P. falciparum* Hsp70.

### APPLICATIONS

**Immunoblotting:** use at 0.1-1ug/ml. A band of ~70kDa is detected.



Immunoblot of PfHsp70 in 20ug *P. falciparum* lysate with #11147 at 0.2ug/ml.

These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freeze-thaw cycles.

*For in vitro investigational use only. Not intended for diagnostic or therapeutic applications.*