

## PfHsp60 Polyclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 11146

**Size:** 100ug in PBS (1.83mg/ml), pH 7.4, 50% glycerol, 0.09% sodium azide. Purified by Protein A affinity chromatography.

### BACKGROUND

Hsp60 is an abundant, constitutively produced heat shock protein that increases in cellular concentration in response to cell shock. It is found in multiple species and is notably homologous in bacteria, plants, and mammals. Hsp60 of *Plasmodium falciparum* is a polypeptide of 577 amino acids with a calculated molecular weight of 62158 Da. The primary structure of *P. falciparum* hsp60 contains a putative mitochondrial targeting peptide at its amino-terminus and a GGM motif at its carboxyl-terminus. The overall structure exhibits strong conservation (approximately 50%) to the hsp60 from human and other eukaryotes, but only low homology (< 30%) to a recently reported *P. falciparum* chaperonin 60 gene. The *P. falciparum* hsp60 gene is located on chromosome 10. During heat shock, the level of hsp60 transcript in blood stage parasites increases significantly and its accumulation correlates with the duration of the induction.

### SPECIFICATION SUMMARY

**Antigen:** Recombinant full-length PfHsp60 (Accession no. XM\_001347402.1)

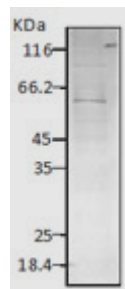
**Host Species:** Rabbit

### SPECIFICITY

This antibody recognizes *P. falciparum* Hsp60 and cross-reacts with *E.coli* Hsp60/GroEI.

### APPLICATIONS

**Immunoblotting:** use at 1ug/ml. A band of ~62kDa is detected.



Immunoblot of PfHsp60 in 20ug *P. falciparum* lysate with #11146 at 1ug/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.*