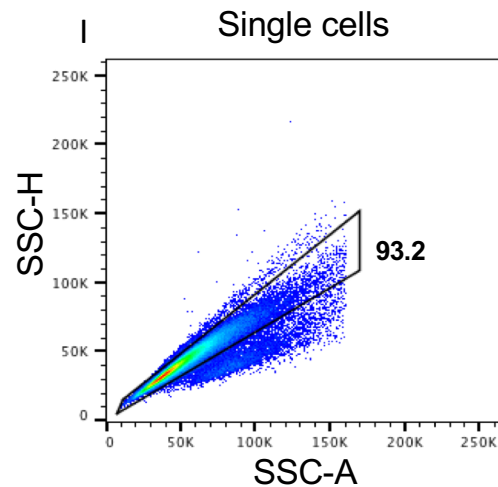
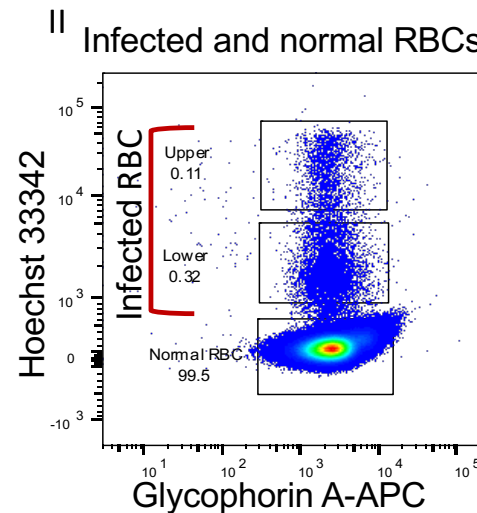


Supplementary Figure 1 – Gating strategy and uncropped PAGE gels and western blots with molecular size marker

**Fig. 2a-d**

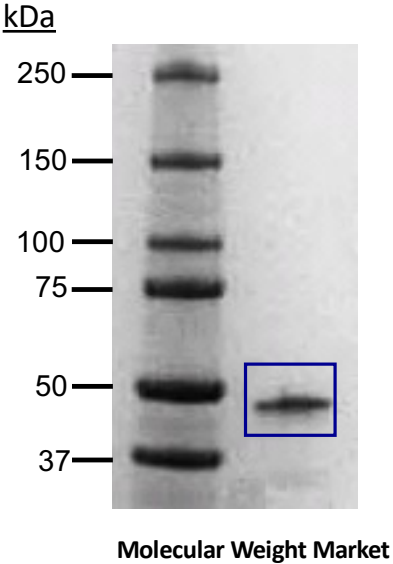


**Fig. 2a-d**

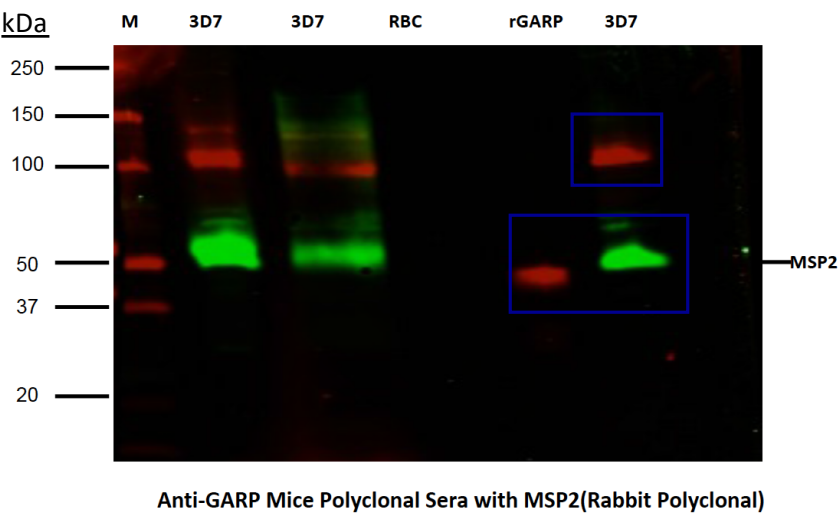


Ring stage 3D7 parasites were cultured for 24-30 hours in the presence of 10% pre-immune mouse sera or anti-PfGARP mouse sera. Cultured parasites were harvested and stained with Hoechst 33342 that stains the parasite DNA, and APC-conjugated anti-human Glycophorin A that stains the RBC membrane. **I.** Single cells were identified gated using SSC-H and SSC-A parameters. **II.** Normal and infected RBCs were identified and gated on the basis of their staining profile of Glycophorin A and Hoechst 33342. Infected RBCs were identified as cells which were positive for both Glycophorin A and Hoechst 33342, represented in the upper two gates. Infected RBCs in the upper most gate represent parasite population with higher DNA content (mature parasites), and Infected RBCs in the lower-middle gate represent parasite population with lower DNA content (immature parasites). The normal RBCs were identified as cells which are positive for Glycophorin A but negative for Hoechst33342, represented in the lower most gate.

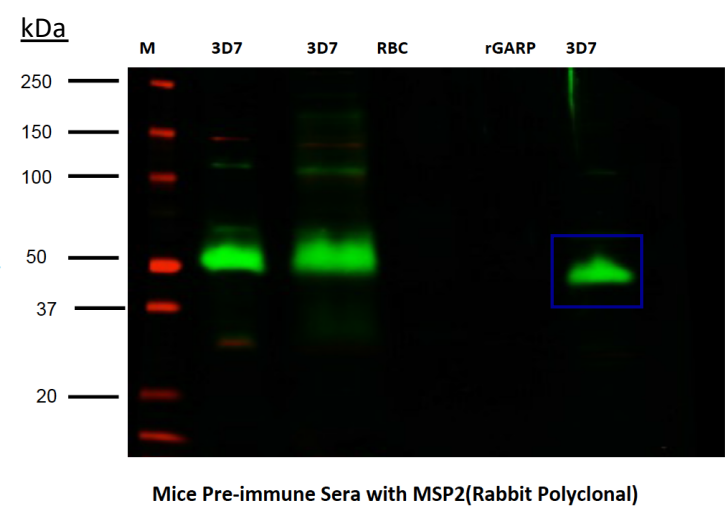
**Ext. Data Fig. 1a**



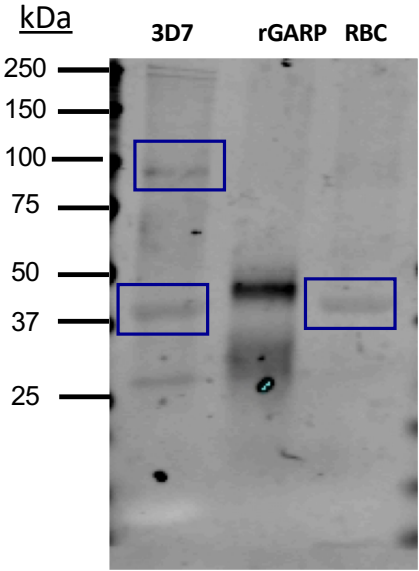
**Ext. Data Fig. 1b**



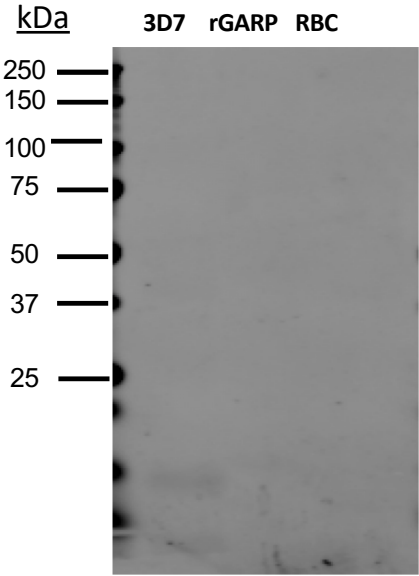
**Ext. Data Fig. 1c**



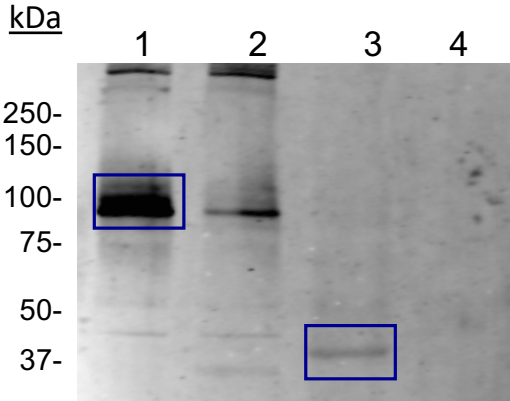
**Ext. Data Fig.1i**



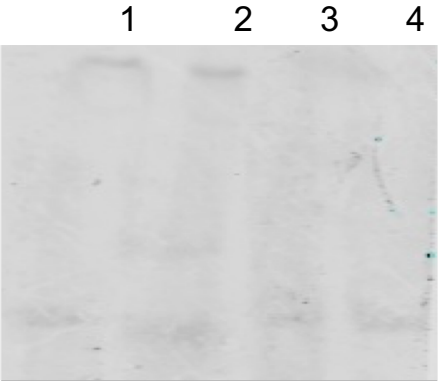
**Ext. Data Fig. 1j**



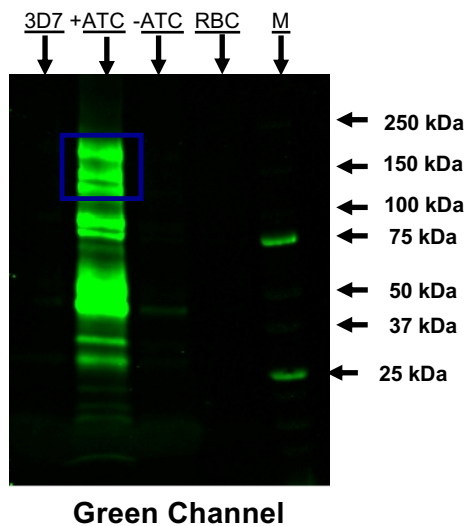
**Ext. Data Fig. 1k**



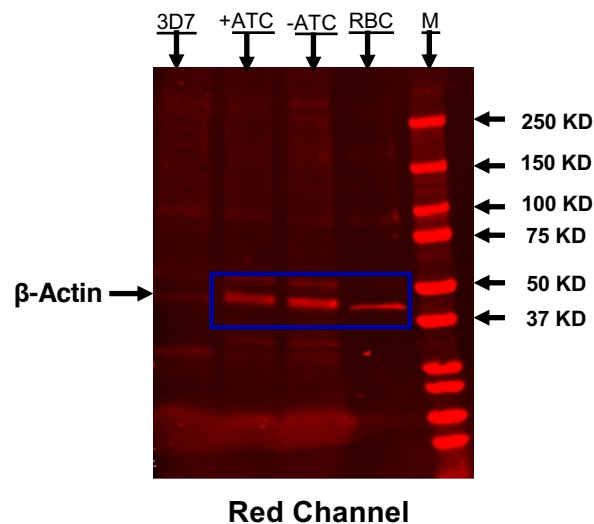
**Ext. Data Fig. 1l**



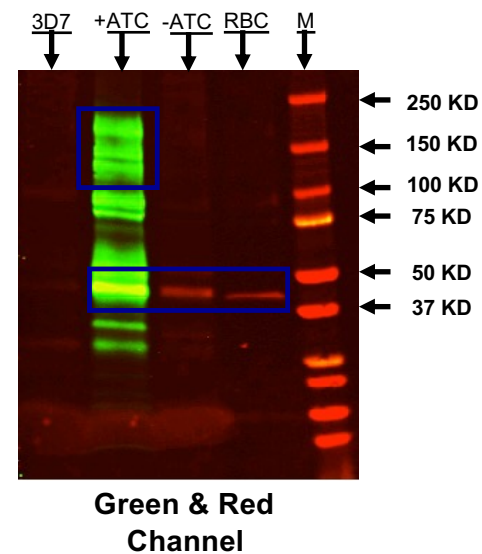
Ext. Data Fig. 3b



Ext. Data Fig. 3b

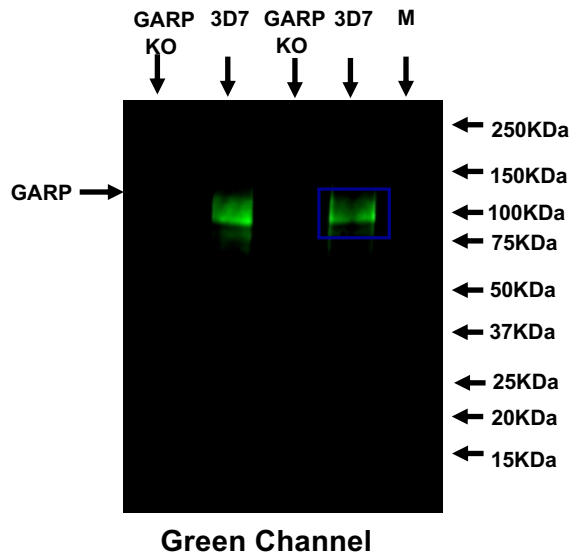


Ext. Data Fig. 3b

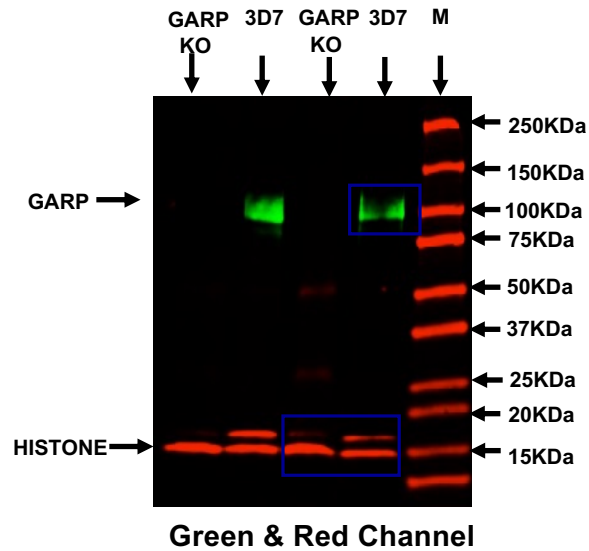


Loading control  $\beta$ -Actin was run on the same gel and the images were taken using dual channel Li-COR system.

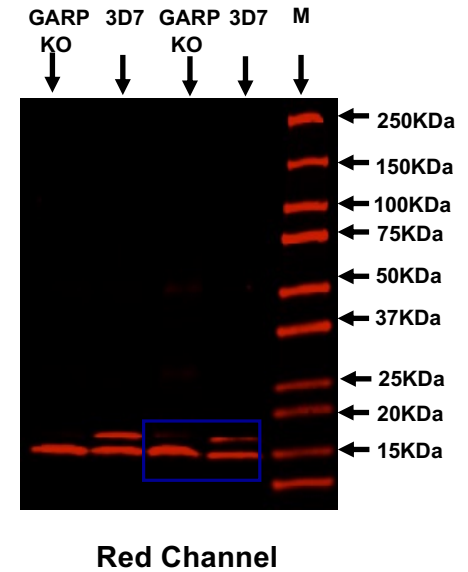
Ext. Data Fig. 4b



Ext. Data Fig. 4b

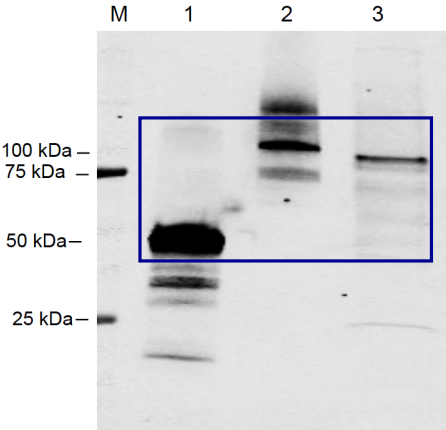


Ext. Data Fig. 4b

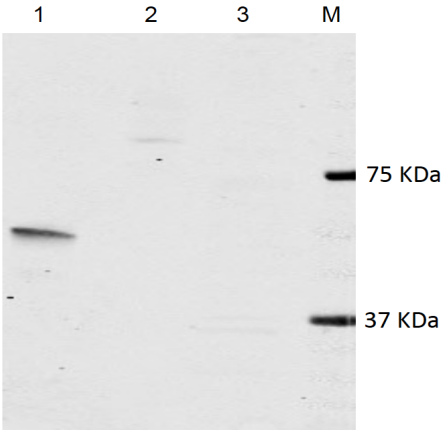


Loading control Histone H3 was run on the same gel and the images were taken using dual channel Li-COR system.

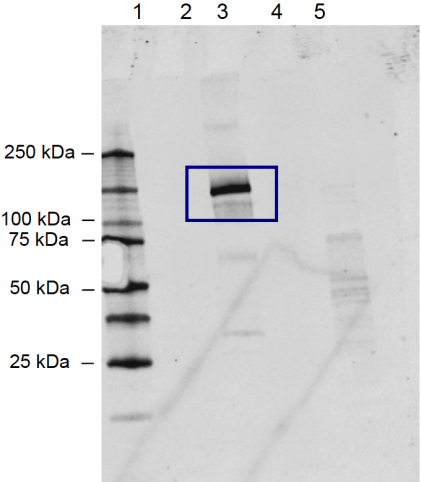
**Ext. Data Fig. 10b**



**Ext. Data Fig. 10c**



**Ext. Data Fig. 10d**



**Ext. Data Fig. 10e**

