# Anti-GST Rabbit Monoclonal Antibody

# Product Datasheet

Catalog# PAR05-100                                 Clone#RR697

**Predicted Molecular Wt:** Depending on customers' target of interest        **Purity:** ProA affinity purified IgG

**Species Cross-reactivity:** Species independent                                 **Form:** Liquid

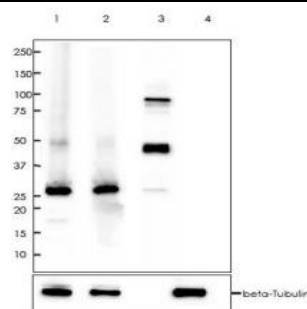Species cross-reactivity determined by WB                                          **Swissprot ID:** P08515

**Applications:** WB        IF/ICC        FC        IP

**Background:**

GST (Glutathione S-Transferase) is a 26kDa protein

encoded by the parasitic helminth Schistosoma

japonicum and widely used in the pGEX family of GST

plasmid expression vectors as a fusion protein with

foreign proteins.

This antibody can recognize both



Predicted MW: Depend on fusion protein with GST tag
Lane 1: 293 cell lysates transfected with N-terminal GST
   tagged gene (RR697 at 1:5,000 dilution).
Lane 2: 293 cell lysates transfected with C-terminal GST
   tagged gene (RR697at 1:5,000 dilution).
Lane 3: two fusion proteins, one (45KD) with GST tag on
C-terminal (RR697 at 1:5,000 dilution), the other (83KD)
D-with GST tag on N-terminal
(RR697 at 1:5,000 dilution).
Lane 4: Mock 293 cell lysates (RR697 at 1:5,000 dilution)

**Immunogen:**

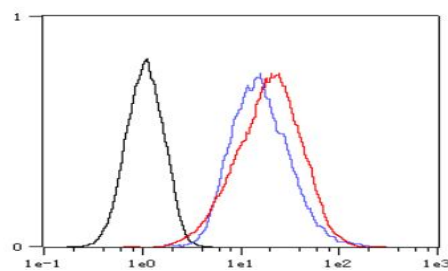Recombinant full length protein within Schistosoma

japonicum GST aa 1-218. The exact sequence is

proprietary.

**Storage Buffer:**

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

**Storage conditions:**

  -20° C.

**Storage instructions:**

Shipped on blue ice. Upon delivery, aliquot, and store

at -20°C. Avoid freeze / thaw cycles.

| | |
|---|---|
| Lane 1&2: 2 µg per lane | 2nd Ab: |
| Lane 3: 20 ng per lane | GAR HRP(H+L) 1:5,000 |
| Lane 4: 10 µg per lane | Exposure: 30 |

**Recommended Dilutions:**

  **WB:**        1:2000 - 1:5000

  **IF/ICC:**   1:10000- 1:40000

  **FC:**         1:800 - 1:2000
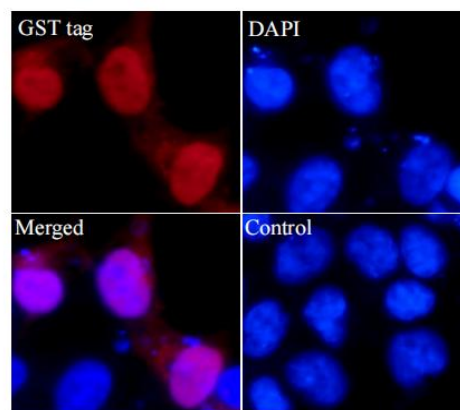
  **IP:**          1:50



Overlay histogram showing 293 cells transfected with C-terminal (Red) and N-terminal (Blue) GST tagged gene stained with RR697. The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR697, 1:2,000 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20min at room temperature. Unlabelled sample (Black) was used as a control.
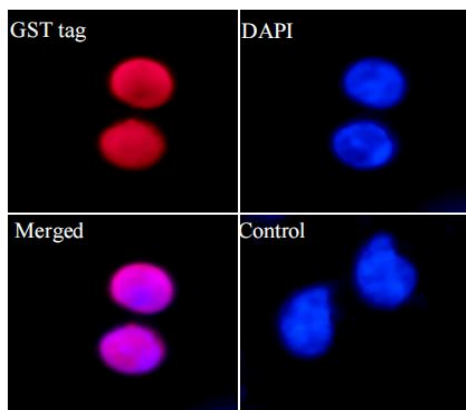
**Background References:**

1.     Wang T et al. Onco Targets Ther 10:1809-1819 (2017).
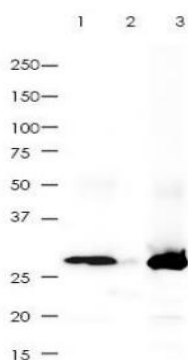
2.     Su QP et al. Sci Rep 6:24002 (2016).

RR697 staining GST tag in 293 cells transfected with N-terminal GST tagged gene by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:40,000) at 4°C. An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain.

Control: PBS and secondary antibody, An Alexa Fluor® 594- conjugated Goat Anti-Rabbit IgG (1:500).

RR697 staining GST tag in 293 cells transfected with C-terminal GST tagged gene by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:40,000) at 4°C. An Alexa Fluor® 594-conjugated Goat AntiRabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain.

Control: PBS and secondary antibody, An Alexa Fluor® 594- conjugated Goat Anti-Rabbit IgG (1:500)



GST tag was immunoprecipitated from 0.2mg of 293 whole cell lysates transfected with C-terminal GST tagged gene with RR697 at 1:50 dilution.
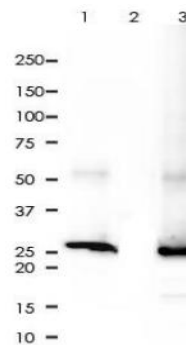2nd Ab:
GAR HRP for IP 1:500
Lane 1: RR697 IP in 293 whole cell lysates transfected with Cterminal GST tagged gene
Lane 2: PBS instead of RR697 in 293 whole cell lysates transfected with C-terminal GST tagged gene
Lane 3: 293 whole cell lysate transfected with C-terminal GST tagged gene, 2 µg (input)
Exposure: 10s

GST tag was immunoprecipitated from 0.2mg of 293 whole cell lysates transfected with N-terminal GST tagged gene with RR697 at 1:50 dilution.
2nd Ab:
GAR HRP for IP 1:500
Lane 1: RR697 IP in 293 whole cell lysates transfected with Nterminal GST tagged gene
Lane 2: PBS instead of RR697 in 293 whole cell lysates transfected with N-terminal GST tagged gene
Lane 3: 293 whole cell lysates transfected with N-terminal GST tagged gene, 2 µg (input)
Exposure: 10s

Product QC'dby: