

## Product datasheet for **AM01249SU-N**

### Trypanosoma brucei Procyclin GPEET Mouse Monoclonal Antibody [Clone ID: 9G4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	9G4
Applications:	ELISA, IF
Recommended Dilution:	<b>ELISA.</b> <b>Immunofluorescence.</b>
Reactivity:	Trypanosoma brucei
Host:	Mouse
Isotype:	IgG3
Clonality:	Monoclonal
Immunogen:	Recombinant protein containing the pentapeptidyl repeat sequence of GPEET-PARP linked to the C-terminus of glutathione-S-transferase.
Specificity:	This antibody recognizes <i>Trypanosoma brucei</i> procyclin GPEET.
Formulation:	State: Ascites State: Lyophilized Ascitic Fluid Stabilizer: None Preservative: None
Reconstitution Method:	Restore with 0.5 ml distilled sterile water.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	<a href="#">Q95P10</a>



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**Background:**

GPEET and EP procyclins are the major surface glycoproteins of *Trypanosoma brucei* while it lives in the midgut (procyclic form) of tsetse flies (*Glossina* spp.). *Trypanosoma brucei* is transmitted between mammals by tsetse flies and the species causes African trypanosomiasis (or sleeping sickness). The surface of *Trypanosoma brucei* insect forms is covered by an invariant protein coat consisting of procyclins. There are six or seven procyclin genes that encode unusual proteins with extensive tandem repeat units of glutamic acid (E) and proline (P) (referred to as EP repeats), and two genes that encode proteins with internal pentapeptide (GPEET) repeats. GPEET procyclin, is rich in Glu-Pro-Glu-Glu-Thr repeats. Although the EP forms of procyclins have been isolated and characterized by several laboratories, evidence for GPEET procyclin has largely been confined to the expression of its mRNA.