

Product datasheet for **BM1342**

Toxoplasma gondii p30 Mouse Monoclonal Antibody [Clone ID: P30/3]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | P30/3 |
| Applications: | ELISA, IF, WB |
| Recommended Dilution: | ELISA: As a guide, the end point titre in an indirect ELISA has been found to be 1/2,000,000 using purified T. gondii P30 as the coating antigen. Western Blot. |
| Reactivity: | Toxoplasma gondii |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Native Toxoplasma gondii p30 (purified). |
| Specificity: | Reacts with T. gondii P30 membrane protein. |
| Formulation: | PBS buffer, pH 7.2 containing 0.09% Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction. |
| Concentration: | lot specific |
| Purification: | Affinity Chromatography on Protein G |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Database Link: | Q27298 |



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Background:

Toxoplasma gondii p30 is the immunodominant surface antigen of Toxoplasma gondii. Toxoplasma gondii is an obligate intracellular protozoan that belongs to the class Sporozoa, and the order Eucoccidia. The parasite has an extremely wide host range and is also nonspecific with respect to the kind of cell type it can enter, making it an interesting model to study invasion. Although toxoplasmosis in healthy adults is generally asymptomatic, it produces severe disease in neonates and immunocompromised people, being the cause of death in many AIDS patients.

P30 is the major surface antigen of T. gondii. It is a very abundant protein, conserved in most strains, and present both in the vesicular network of the parasitophorous vacuole and on the surface of the parasite. It is very immunogenic, eliciting high titers of antibodies in infected individuals. The gene coding for P30 has been cloned and completely sequenced: the deduced amino acid sequence shows a putative signal sequence at the N terminus, consistent with localization of P30 on the parasite's surface, as well as a short hydrophobic stretch at the C terminus.

Synonyms:

Major surface antigen p30