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Supplementary Table 3. Baseline characteristics of included studies based on immunization experiments with protein vaccines against *Toxoplasma gondii* in mouse models (single antigens)

Antigen	Adjuvant or carrier	Ag delivery	Mouse strain	Challenge	Immune responses	Brain cyst load	Survival	Conclusions or suggestions	Reference
MIC1	FCA and FIA	s.c	C57BL/6 (H-2^b)	40 and 80 cysts of the ME49 strain, orally	Induced a strong IgG antibody response ($p<0.05$) Iduced mixed Th1/Th2 immune responses with predominance of IgG2b over IgG1 ($p<0.05$) ↑ Splenocyte proliferation ($p<0.05$) ↑ IFN-γ and IL-10 ($p<0.05$)	Reduced (52%, $p<0.05$)	Increased survival rate (50%, 30-day post challenge, $p<0.05$) Control mice were died within 11 days.	The use of this vaccine offers a promising strategy for conferring protection against toxoplasmosis.	[21]
MIC4	FCA and FIA	s.c	C57BL/6 (H-2^b)	40 and 80 cysts of the ME49 strain, orally	Induced a strong IgG antibody response ($p<0.05$) Induced mixed Th1/Th2 immune responses with predominance of IgG2b over IgG1 ($p<0.05$) ↑ Ssplenocyte proliferation ($p<0.05$) ↑ IFN-γ and IL-10 ($p<0.05$)	Reduced (46.9%, $p<0.05$)	Increased survival rate (50%, 30-day post challenge, $p<0.05$) Control mice were died within 11 days.	The use of this vaccine offers a promising strategy for conferring protection against toxoplasmosis.	[21]
MIC6	FCA and FIA	s.c	C57BL/6 (H-2^b)	40 and 80 cysts of the ME49 strain, orally	Induced a strong IgG antibody response ($p<0.05$) Iduced mixed Th1/Th2 immune responses with predominance of IgG2b over IgG1 (none significant) ↑ Splenocyte proliferation ($p<0.05$) ↑ IFN-γ and IL-10 ($p<0.05$)	Reduced (27.2%, none-significant)	Increased survival rate (40%, 30-day post challenge, $p<0.05$) Control mice were died within 11 days.	The use of this vaccine offers a promising strategy for conferring protection against toxoplasmosis.	[21]

MIC, microneme proteins; FCA, Freund's complete adjuvant; IFN-γ, interferon-γ; IL, interleukin; Th1, T helper 1.

Supplementary Table 4. Baseline characteristics of included studies based on immunization experiments with protein vaccines against *Toxoplasma gondii* in mouse models (mixed antigens)

Antigen	Adjuvant or carrier	Ag delivery	Mouse strain	Challenge	Immune responses	Brain cyst load	Survival	Conclusions or suggestions	Reference
MIC1+MIC4	FCA and FIA	s.c	C57BL/6 (H-2^b)	40 and 80 cysts of the ME49 strain, orally	Mixed IgG1/IgG2a response ↑ IFN-γ (9,274±2,151 pg/mL, $p<0.05$), IL-2 (50±5 pg/mL, $p<0.05$), and IL-10 (1,608±380 pg/mL, $p<0.05$)	Reduced (68%, $p<0.05$)	Increased survival rate (80%, 30-day post challenge, $p<0.05$) Control mice were died within 11 days.	The data demonstrate that MIC1 and MIC4 triggered a protective response against toxoplasmosis, and that these antigens are targets for the further development of a vaccine.	[22]
	FCA and FIA	s.c	C57BL/6 (H-2^b)	40 and 80 cysts of the ME49 strain, orally	Induced a strong IgG antibody response ($p<0.05$) Induced mixed Th1/Th2 immune responses with predominance of IgG2b over IgG1 ($p<0.05$) ↑ IFN-γ, IL-12 p-40, and IL-10 ($p<0.05$)	Reduced (59%, $p<0.05$)	Increased survival rate (70%, 30-day post challenge, $p<0.05$) Control mice were died within 11 days.	Our results demonstrate that microneme proteins are potential vaccines against *T. gondii*, since their inoculation prevents or decreases the deleterious effects of the infection.	[21]
MIC1+MIC4+MIC6	FCA and FIA	s.c	C57BL/6 (H-2^b)	40 and 80 cysts of the ME49 strain, orally	Induced a strong IgG antibody response ($p<0.05$)	Reduced (67.8%, $p<0.05$)	Increased survival rate (80%, 30-day post challenge, $p<0.05$)	Our results demonstrate that microneme proteins are potential vaccines against *T. gondii*, since their inoculation prevents or decreases the deleterious effects of the infection.	[21]

MIC, microneme proteins; s.c, subcutaneous; IFN-γ, interferon-γ; IL, interleukin; Th1, T helper 1.