





TG GRA1/p24 (residues 57-149)

Toxoplasma Gondii Dense Granule Protein 1 Toxoplasma gondii, recombinant, E. coli

Cat. No.	Amount	Applications
PR-1244	100 µg	Antigen in EL Toxoplasma

For general laboratory use.

Shipping: shipped on gel packs

Storage Conditions: store at -20 °C

Additional Storage Conditions: avoid freeze/thaw cycles

Shelf Life: 12 months

Purity: > 90 % (SDS-PAGE)

Form: liquid (Supplied in 1x PBS pH 7.2 and 50% glycerol)

LISA and Western blots, excellent antigen for detection of gondii with minimal specificity problems.

Description:

The protein contains the p24 (GRA1) immunodominant regions, amino acids 57-149. The protein is purified by proprietary chromatographic technique.

Toxoplasma gondii is an obligate intracellular Background: protozoan parasite that infects all warmblooded animals, including humans, and causes toxoplasmosis. The GRA1 antigen (p24), a product of T. gondii, is a promising vaccine candidate. It is a 23-kDa calcium-binding protein, and induces humoral and cellular immune responses in mice and humans in the chronic phase of the infection. Vaccination with GRA1 has been shown to be protective in two animal models of infection.

Specificity: Immunoreactive with sera of T. gondii- infected individuals.

Selected References:

Bivas-Benita et al. (2003) Generation of Toxoplasma gondii GRA1 protein and DNA vaccine loaded chitosan particles: preparation, characterization, and preliminary in vivo studies. Int. J. Pharm. 266:17.

Hiszczynska-Sawicka et al. (2003) High yield expression and singlestep purification of Toxoplasma gondii SAG1, GRA1, and GRA7 antigens in Escherichia coli. Protein Expr. Purif. 27:150.

Scorza et al. (2003) A GRA1 DNA vaccine primes cytolytic CD8 (+) T cells to control acute Toxoplasma gondii infection. Infect. Immun. 71:309.

Beghetto et al. (2001) Identification of a human immunodominant B-cell epitope within the GRA1 antigen of Toxoplasma gondii by phage display of cDNA libraries. Int. J. Parasitol. 31:1659.

