

Recombinant *Toxoplasma gondii* ROP4 protein, GST-tagged

Cat. No. ROP4-892T **Lot. No.** (See product label)

SPECIFICATION

Product Overview E.coli derived recombinant. The protein contains the ROP4 immunodominant regions.

Species T.gondii

Source E.coli

Description

The life cycle of *Toxoplasma gondii* has two phases. The coccidia like takes place only in members of the Felidae family which makes these animals the parasite's primary host. The asexual part of the life cycle can take place in any warm-blooded animal, like other mammals(including felines) and birds. T. gondii constructing daughter scaffolds within the mother cell. In the intermediate hosts (including felines), the parasite invades cells, forming intracellular so-called parasitophorous vacuoles containing bradyzoites, the slowly replicating form of the parasit. Vacuoles form tissue cysts mainly within the muscles and brain. Since they are within cells, the host's immune system does not detect these cysts. Resistance to antibiotics varies, but the cysts are very difficult to eradicate entirely. Within these vacuoles T. gondii propagates by a series of binary fissions until the infected cell eventually bursts and tachyzoites are released. Tachyzoites are the motile, asexually reproducing form of the parasite. Unlike the bradyzoites, the free tachyzoites are usually efficiently cleared by the host's immune response, although some manage to infect cells and form bradyzoites, thus maintaining the infection.

Purity >95% pure; Purity of proteins is evaluated by SDS-PAGE

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Applications	ELISA, WB
Storage	LongTerm: -80°C; Short Term: 4°C
Concentration	~ 1 mg/ml; bulk amount available upon request.
Storage buffer	25 mM Tris-HCl pH 8.0; 5 mM Glutathione; 1.5M Urea; 50% Glycerol.
Shipping	Wet Ice

GENE INFORMATION

Gene Name	ROP4 rhoptry protein ROP4 [<i>Toxoplasma gondii</i> ME49]
Official Symbol	ROP4
Synonyms	ROP4; rhoptry protein ROP4
Gene ID	29769643
mRNA Refseq	XM_018782265.1
Protein Refseq	XP_018638551.1
UniProt ID	S8FFC5

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