Recombinant Toxoplasma gondii SAG1

Cat. No. SAG1-597T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The E.coli derived recombinant protein contains the p30 (SAG1) immunodomi1nant regions, amino acids 49-311. The fusion protein contains additional 46 amino acids derived from pET vectors.
Species	T.gondii
Source	E.coli
ProteinLength	49-311 A.A.
Description	In molecular biology, the SAG1 protein domain is an example of a group of glycosylphosphatidylinositol (GPI)-linked proteins named SRSs (SAG1 related sequence). SAG1 is found on the surface of a protozoan parasite Toxoplasma gondii. This parasite infects almost any warm-blooded vertebrate. The surface of T. gondii is coated with a family of developmentally regulated glycosylphosphatidylinositol (GPI)-linked proteins (SRSs), of which SAG1 is the prototypic member.
Form	50 mM Tris-HCl, 50% glycerol and 1 mM of DTT. No preservative and no stabilizer.
Purity	Toxoplasma protein is >95.0% pure as determined by 12.0% PAGE (Coomassie staining).
Applications	Toxoplasma antigen is suitable for ELISA and Western blots, excellent antigen for detection of Toxoplasma gondii- with minimal specificity problems.

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Notes	Immunoreactive with sera of Toxoplasma gondii-infected individuals.
Stability	6 months at -20°C or one year -80°C.
Storage	Toxoplasma protein is shipped at 4°C. Upon arrival, store at -20°C.

GENE INFORMATION

Gene Name	Q27298_TOXGO
Official Symbol	SAG1
Synonyms	SAG1; P30; SAG1 protein
Gene ID	5811
UniProt ID	Q27298
Function	Direct host-parasite interaction occurs at the cytoplasmic faces of the parasitophorous vacuole membrane (PVM) and the host endoplasmic reticulum (ER) membrane via GRA3 and host CAMLG association. Direct insertion of GRA3 ER retrieval motif into the host ER membrane contributes to the host ER recruitment to the PVM.

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