



Office of Technology Management

*Polyclonal Antibodies against elements of the human parasites *Brugia malayi* and *S. mansoni**

Technology Reference

CX040-046

Contact

Gordon Comstock
Office of Technology Management
1737 West Polk
Suite 312 AOB
MC 682
Chicago, Illinois
60612

gordonc@uic.edu

Phone: 312-996-7779

Fax: 312-996-1995

Inventor

K. Ramaswamy

Field

Parasitology

Immunology

Allergy

Key Words

B. malayi

S. mansoni

Allergic response

Histamine release

License Status

Seeking licensing partner

Patent Status

Protected by trade secret

Overview

B. malayi, the causative agent for elephantiasis, is a mosquito-borne parasitic filamentary nematode that is endemic in many tropical regions. The larval form of *B. malayi* migrates to the lymphatic system of human hosts where it matures. The edema caused by the maturation of the parasite results in the swelling and tissue growths associated with elephantiasis.

S. mansoni is one of three species of helminth parasite responsible for schistosomiasis, a debilitating liver disease that is endemic to many tropical regions. The function of Sm-GBF in *S. mansoni* is not presently known. It is anticipated that it will have regulatory functions similar to those of other G-binding proteins.

Technical Summary

This invention consists of rabbit polyclonal antibodies that are specific: for the Translationally Controlled Tumor Protein (Bm-TCTP) human parasite *Brugia malayi* (CX040); for abundant Larval Transcript (ALT) protein of human parasite *Brugia malayi* (CX041); for the G-Binding Factor (GBF) protein of the human parasite *S. mansoni* (CX042); for anti-inflammatory protein Sm-16 that is produced by the human parasite *S. mansoni* (CX043); against the cercariae stage of the human parasite *S. mansoni* (CX044); for the Translationally Controlled Tumor Protein (Sm-TCTP) of the human parasite *S. mansoni* (CX045); and for the 28kDa Glutathione-S-Transferase (GST) protein of the human parasite *S. mansoni* (CX046).

Benefits

- Binds to a unique protein that has been implicated in the triggering of allergenic responses.

Areas of Application

- Research
- Diagnostic testing
- Asthma therapy
- Allergy therapy

Stage of Development

- Purified antibodies and immunogens available