



Product Information Sheet

Monoclonal Anti-Troponin T

Catalogue No. MA1098

Immunogen

Troponin T from rabbit skeletal muscle.

Lot No. 08A12

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Clone: TT-98

Ig type: mouse IgG1

Application

Western blot

Size: 100µg/vial

At 2-4µg/ml with the appropriate system to detect Troponin T in cells and tissues.

Specificity

Human, mouse, rat, rabbit, chicken.

No cross reactivity with other proteins.

Immunohistochemistry(P)

At 4-8µg/ml to detect Troponin T in formalin fixed and paraffin embedded tissues.

Immunohistochemistry(F)

At 4-8µg/ml to detect Troponin T in formalin or acetone fixed tissues.

Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

BACKGROUND

The troponin complex is located on the thin filament of striated muscle and is composed of 3 component polypeptides: troponin 1, troponin T and troponin C. Three troponin T genes have been described on the basis of molecular cloning in humans and other vertebrates. These are expressed in a tissue-specific manner and encode the troponin T isoforms expressed in slow skeletal muscle (TNNT1),

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

cardiac muscle(TNNT2),and fast skeletal muscle (TNNT3). TNNT1, TNNT2, TNNT3 are located on 19q13.4, 1q32, 11p15.5 respectively.

REFERENCE

1. Samson, F.; de Jong, P. J.; Trask, B. J.; Koza-Taylor, P.; Speer, M. C.; Potter, T.; Roses, A. D.; Gilbert, J. R. : Assignment of the human slow skeletal troponin T gene to 19q13.4 using somatic cell hybrids and fluorescence in situ hybridization analysis. *Genomics* 13: 1374-1375, 1992.
2. Durand, J.-B.; Bachinski, L. L.; Bieling, L. C.; Czernuszewicz, G. Z.; Abchee, A. B.; Yu, Q. T.; Tapscott, T.; Hill, R.; Ifegwu, J.; Marian, A. J.; Brugada, R.; Daiger, S.; Gregoritch, J. M.; Anderson, J. L.; Quinones, M.; Towbin, J. A.; Roberts, R. : Localization of a gene responsible for familial dilated cardiomyopathy to chromosome 1q32. *Circulation* 92: 3387-3389, 1995.
3. Mao, C.; Baumgartner, A. P.; Jha, P. K.; Huang, T. H.-M.; Sarkar, S. : Assignment of the human fast skeletal troponin T gene (TNNT3) to chromosome 11p15.5: evidence for the presence of 11pter in a monochromosome 9 somatic cell hybrid in NIGMS mapping panel 2. *Genomics* 31: 385-388, 1996.