



Category: Monoclonal Antibodies **Cat. #** 1107NF- V1144 **Product Name:** Cardiac Troponin I

Description:

Monoclonal Mouse Anti-Human Cardiac Troponin I

Immunogen:

Purified human cardiac troponin I.

Cellular Localization:

cytoplasmic staining of cardiac muscle cells

Application:

Immunohistochemistry 1:25(For formalin-fixed paraffin-embedded (FFPE) tissue sections antigen demasker (10 mM citrate buffer pH 6.0) is required. Boil the tissue 10-20 mins in this buffer, followed by cooling to RT.

Western Blotting 1:50-1:100.

ELISA 1:500-1:1000.

Immunoprecipitation.

Species Reactivity:

Human. Others not tested.

Presentation:

Mouse immunoglobulins (IgG1) in 20 mM tris-borate, 150 mM Sodium Chloride, BMC-6 carrier polysaccharides, 0.05% Sodium Azide, pH 7.5.

Aliquoting Instructions:

Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4°C. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies.

GENERAL INFO: When diluting for immunohistochemistry, ELISA or western blot, make the dilution in Antibody Diluting Buffer. Avoid diluting the entire contents of the vial at once since the diluted solution may have reduced stability.

Staining Procedure:

This antibody can be used on formalin-fixed, paraffin-embedded tissue sections. Prolonged fixation in buffered formalin can destroy the epitope. The antibody may be used at a dilution of 1:25-1:50 in IHC. When using paraffin-embedded and formalin-fixed tissues, high temperature antigenic unmasking technique (see instructions below) is strongly recommended for consistent and reproducible results. This product can also be used on frozen tissue sections. The optimal conditions should be determined by the individual laboratory.

Specificity:

This antibody is specific for human cardiac troponin subunit I, a 21 kD protein responsible for inhibiting actomyosin Mg²⁺-ATPase activity. This antibody has less than 0.1% reactivity with human skeletal TNI as measured by ELISA.

Storage:

Store at 2~8o C for short term, freeze under -20oC for long term storage.

Notes:

High temp. antigen demasking for FFPE tissue sections. Deparaffinize and rehydrate tissue sections.

10mM citrate buffer pH 6.0. Boil 10-20 mins, followed by cooling 10-20 mins

OR

Process tissue sections in Pressure cooker for 5 mins in citrate buffer followed by cooling 10-20 mins to RT.

Wash tissue sections with buffer (PBS or Automation buffer,)

Size: 0.5 ml

Clone: 2D5

Isotype: IgG1, k

Host: Mouse

Form: Concentrated

Mol. Wt. of Antigen: 21 kD

Concentration: 0.4 mg/ml

Units On Hand: YES

References:

1. Farah, C.S. et al. FASEB Journal. 9: 755-767, 1995.
2. Katus, H.A. et al. Laboratory Medicine. 23: 311-317, 1992.
3. Cummins, B. et al. American Heart Journal. 113:1333-1344.

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