



Magic™ Mouse anti-Human troponin C (TnC) Monoclonal antibody, clone 8C0 (DMAB-L21010)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with human cardiac troponin complex (MAbs DMAB-L21010).
Antigen Description	Troponin is the central regulatory protein of striated muscle contraction. Tn consists of three components: Tn-I which is the inhibitor of actomyosin ATPase, Tn-T which contains the binding site for tropomyosin and Tn-C. The binding of calcium to Tn-C abolishes the inhibitory action of Tn on actin filaments.
Specificity	Human TnC. No cross-reactivity with cTnT and cTnI. All MAbs recognize TnC also in binary complex with cTnI.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	8C0
Purification	Chromatography on protein A Sepharose
Conjugate	Unconjugated
Applications	TnC immunoassay and immunoaffinity purification. All DMABs work in Western blotting. DMABs can be used in high sensitivity cTnI sandwich immunoassay in pairs with antibodies specific to Tn complex (Cat.# DMAB-L21009).

Buffer	PBS, pH 7.4, 0.1 % sodium azide (NaN ₃)
Preservative	0.1% Sodium Azide
Storage	4°C

GENE INFORMATION

Gene Name	TNNC1troponin C type 1 (slow)
Official Symbol	TNNC1
Synonyms	Cardiac troponin C; CMH7; cTnl; Slow troponin C1; TN C; TNC; TNNC 1; TNNC; TNNC1; TNNC1 protein; TNNI3; Troponin C cardiac; Troponin C slow skeletal and cardiac muscles; Troponin C type 1 (slow); Troponin C type 1; Troponin C1 slow; Troponin I type 3 (cardiac); TN-C; CMD1Z; CMH13; troponin C, slow skeletal and cardiac muscles; troponin C, slow skeletal and cardiac muscles; troponin C1, slow; cardiac troponin C; slow twitch skeletal/cardiac muscle troponin C; troponin C type 1 (slow); OTTHUMP00000213108; TN-C; TNC; CMD1Z; slow twitch skeletal/cardiac muscle troponin C; CMH13; troponin C, slow skeletal and cardiac muscles; troponin C, slow; troponin C1, slow
Entrez Gene ID	7134
Protein Refseq	NP_003271
UniProt ID	P63316
Chromosome Location	3p21.1
Pathway	Calcium signaling pathway; Cardiac muscle contraction; Cardiac muscle contraction; Dilated cardiomyopathy; Dilated cardiomyopathy; Hypertrophic cardiomyopathy (HCM)
Function	actin filament binding; calcium ion binding; calcium-dependent protein binding; protein binding; protein homodimerization activity; troponin I binding; troponin I binding; troponin T binding