



Anti-TNNC1 (full length) polyclonal antibody (DPAB-DC3086)

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

PRODUCT INFORMATION

Antigen Description	Troponin is a central regulatory protein of striated muscle contraction, and together with tropomyosin, is located on the actin filament. Troponin consists of 3 subunits: TnI, which is the inhibitor of actomyosin ATPase; TnT, which contains the binding site for tropomyosin; and TnC, the protein encoded by this gene. The binding of calcium to TnC abolishes the inhibitory action of TnI, thus allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in this gene are associated with cardiomyopathy dilated type 1Z.
Immunogen	TNNC1 (AAH30244, 1 a.a. ~ 161 a.a) full-length recombinant protein with GST tag. The sequence is MDDIYKAAVEQLTEEQKNEFKAAFDIFVLGAEDGCISTKELGKVMRMLGQNPTPEELQEM IDEVDEDGSGTVDFDFEFLVMMVRCMKDDSKGKSEEELSDLFRMFDKNADGYIDLDELKIM LQATGETITEDDIEELMKDGDKNNDGRIDYDEFLEFMKGVE
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	TNNC1 troponin C type 1 (slow) [Homo sapiens (human)]
Official Symbol	TNNC1
Synonyms	TNNC1; troponin C type 1 (slow); TNC; TN-C; TNNC; CMD1Z; CMH13; troponin C, slow skeletal and cardiac muscles; troponin C1, slow; cardiac troponin C; slow twitch skeletal/cardiac muscle troponin C;
Entrez Gene ID	7134
Protein Refseq	NP_003271
UniProt ID	P63316
Chromosome Location	3p21.1
Pathway	Adrenergic signaling in cardiomyocytes; Calcium signaling pathway; Cardiac muscle contraction; Dilated cardiomyopathy
Function	actin filament binding; calcium ion binding; calcium-dependent protein binding; protein binding