



Anti-TNNI3 (aa 102-210) polyclonal antibody (DPAB-DC3088)

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

PRODUCT INFORMATION

Antigen Description	Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).
Immunogen	TNNI3 (NP_000354, 102 a.a. ~ 210 a.a) partial recombinant protein with GST tag. The sequence is ARVDKVDEERYDIEAKVTKNITEIADLTQKIFDLRGKFKRPTLRRVRISADAMMQALLGARAKESLDLRAHLKQVKKEDTEKENREVGDWKRNIDALSGMEGRKKKFES
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Tissue lysate), 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	TNNI3 troponin I type 3 (cardiac) [Homo sapiens (human)]
Official Symbol	TNNI3
Synonyms	TNNI3; troponin I type 3 (cardiac); CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF; troponin I, cardiac muscle; cardiomyopathy, dilated 2A (autosomal recessive);
Entrez Gene ID	7137
Protein Refseq	NP_000354
UniProt ID	P19429
Chromosome Location	19q13.4
Pathway	Adrenergic signaling in cardiomyocytes; Cardiac Progenitor Differentiation; Cardiac muscle contraction; Dilated cardiomyopathy
Function	actin binding; calcium channel inhibitor activity; calcium-dependent protein binding; metal ion binding