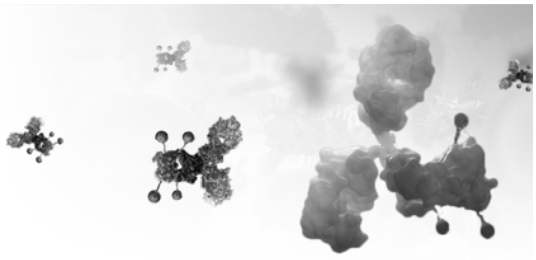

# Anti-TNNT2 (aa 1-268) polyclonal antibody (DPAB-DC3089)

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

## PRODUCT INFORMATION

| | |
|---|---|
| **Antigen Description** | The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined. |
| **Immunogen** | TNNT2 (AAH02653, 1 a.a. ~ 268 a.a) partial recombinant protein with GST tag. The sequence is MSDIEEVVEEYEEEEQEEAAVEEQEEAAEEDAEAEAETEETRAEEDEEEEEAKEAEDGPM EESKPKPRSFMPNLVPPKIPDGERVDFDDIHRKRMEKDLNELQALIEAHFENRKKEEEEL VSLKDRIERRRAERAEQQRIRNEREKERQNRLAEERARREEEENRRKAEDEARKKKALSN MMHFGGYIQKTERKSGKRQTEREKKKKILAERRKVLAIDHLNEDQLREKAKELWQSIYNL EAEKFDLQEKFKQQKYEINVLRNRINDN |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human |
| **Conjugate** | Unconjugated |
| **Applications** | ELISA, |
| **Size** | 50 µl |
| **Buffer** | 50 % glycerol |
| **Preservative** | None |

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

| | |
|---|---|
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

# GENE INFORMATION

| | |
|---|---|
| **Gene Name** | TNNT2 troponin T type 2 (cardiac) [ Homo sapiens (human) ] |
| **Official Symbol** | TNNT2 |
| **Synonyms** | TNNT2; troponin T type 2 (cardiac); CMH2; RCM3; TnTC; cTnT; CMD1D; CMPD2; LVNC6; troponin T, cardiac muscle; troponin T2, cardiac; cardiomyopathy, hypertrophic 2; cardiomyopathy, dilated 1D (autosomal dominant); |
| **Entrez Gene ID** | 7139 |
| **Protein Refseq** | NP_000355 |
| **UniProt ID** | P45379 |
| **Chromosome Location** | 1q32 |
| **Pathway** | Adrenergic signaling in cardiomyocytes; Cardiac muscle contraction; Hypertrophic cardiomyopathy (HCM); Striated Muscle Contraction |
| **Function** | contributes_to ATPase activity; actin binding; structural constituent of cytoskeleton; tropomyosin binding |

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221