**Magic™ Anti-skTnI monoclonal antibody, clone 8H3 (DMAB-L21006)**

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 skTnI.

### 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). [provided by RefSeq, Jul 2008]

### Specificity
- Human skTnI.
- Cross-reaction of MAb 8H3 with cardiac TnI is less than 1.5%.

### Isotype
- IgG2b

### Source/Host
- Mouse

### Species Reactivity
- Human

### Clone
- 8H3

### Purification
- Chromatography on protein A Sepharose

### Conjugate
- Unconjugated

### Applications
- skTnI immunoassay and TnI immunoaffinity purification. All DMABs are working in Western blotting.
  - Recommended pair for sandwich immunoassay (capture - detection): DMAB-L21005 - DMAB-L21006

### Procedure
- Matched Antibody Pairs

### Buffer
- PBS, pH 7.4, 0.1 % sodium azide (NaN3)

### Preservative
- 0.1% Sodium Azide

### Storage
- 4°C
<table>
<thead>
<tr>
<th><strong>Gene Name</strong></th>
<th>TNNI3 troponin I type 3(cardiac) [ Homo sapiens ]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Official Symbol</strong></td>
<td>TNNI3</td>
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<tr>
<td><strong>Synonyms</strong></td>
<td>TNNI3; troponin I type 3 (cardiac); CMH7; RCM1; cTnl; CMD2A; TNNC1; MGC116817; troponin I, cardiac; Troponin I, cardiac muscle; Cardiac troponin I; familial hypertrophic cardiomyopathy 7</td>
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<tr>
<td><strong>Entrez Gene ID</strong></td>
<td>7137</td>
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<td><strong>Protein Refseq</strong></td>
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<td><strong>UniProt ID</strong></td>
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<td><strong>Chromosome Location</strong></td>
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<tr>
<td><strong>Pathway</strong></td>
<td>Hypertrophic cardiomyopathy (HCM); Muscle contraction; Cardiac muscle contraction</td>
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<tr>
<td><strong>Function</strong></td>
<td>actin binding; calcium-dependent protein binding; protein domain specific binding; protein kinase binding; troponin C binding; troponin T binding; calcium channel inhibitor activity</td>
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