Mouse Anti bovine troponin T Hybridoma [DU4]

Anti bovine troponin T Hybridoma
Lot. No. (See product label)

CELL LINE INFORMATION

<table>
<thead>
<tr>
<th>Cat.No.</th>
<th>CSC-H2377</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name</td>
<td>TNNT2</td>
</tr>
<tr>
<td>Clone</td>
<td>DU4</td>
</tr>
<tr>
<td>Cell Line Description</td>
<td>The antibody is against bovine troponin T (Name: cardiac troponin T; Origin: bovine heart; Developmental Stage: adult; Chemical properties: cardiac troponin T; Molecular weight: 43 kDa)</td>
</tr>
</tbody>
</table>

Background
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
bovine troponin T

Immunological Donor
female BALB/C Mouse spleen

Myeloma
Mouse NS1

Fusion Species
Mouse X Mouse Hybridoma

Mycoplasma
Mycoplasma Status: Negative (MycoAlert Kit)

ANTIBODY INFORMATION

Reactivity
broad-species specificity, Xenopus

Isotype
IgG2a

Target
TNNT2

Application
Immunohistology: cardiac muscle and some skeletal muscle; Immunoblotting: single band from cardiac muscle samples of a variety of species; Immunohistochemistry: cardiac muscle

SAFETY AND PACKAGING

Storage
liquid nitrogen

Safety Considerations
The following safety precautions should be observed.
1. Use pipette aids to prevent ingestion and keep aerosols down to a minimum.
2. No eating, drinking or smoking while handling the hybridoma.
3. Wash hands after handling the hybridoma and before leaving the lab.
4. Decontaminate work surface with disinfectant or 70% ethanol before and after working with hybridoma.
5. All waste should be considered hazardous.
6. Dispose of all liquid waste after each experiment and treat with bleach.

Ship
Dry Ice

ANTIGEN GENE INFORMATION
**Gene Name**: TNNT2 troponin T type 2 (cardiac) [Bos taurus]

**Official Symbol**: TNNT2

**Synonyms**: TNNT2; troponin T type 2 (cardiac); BOS_15864; cTnT; cardiac muscle troponin T; tnTc; troponin T, cardiac muscle; troponin T2, cardiac;

**Gene ID**: 286816

**mRNA Refseq**: NM_174771.3

**Protein Refseq**: NP_777196.1

**UniProt ID**: Q9TUM9

**Chromosome Location**: chromosome: 16

**Pathway**: Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), conserved biosystem

**REFERENCES**