# Anti-troponin 1 [14] mAb

Catalogue number: 160856 Sub-type: Primary antibody Images:

### Contributor

**Inventor:** Peter Cummins Institute: University Of Birmingham Images:

# **Tool details**

#### **\*FOR RESEARCH USE ONLY**

ancerTools.org Name: Anti-troponin 1 [14] mAb

Alternate name: CdTn1, cTn1

**Class:** Monoclonal

#### **Conjugate:**

Description: Cardiac and skeletal muscle contraction involves the cyclic interaction of myosin cross bridges with actin involving the concomitant hydrolysis of Mg ATP. Troponin and tropomyosin, located on the actin thin filament, are responsible for the calcium dependent regulation of the contractile process by responding to changes in the intracellular free calcium concentration. Muscle contraction is initiated by the binding of calcium to troponin C; this initiates a cascade of allosteric changes in the troponin/ tropomyosin complex, releasing the inhibitory troponin-l/actin interaction, and resulting in tropomyosin rotating radially on the thin filament from the inhibitory position. This allows actin and myosin to interact fully and, therefore, contraction to ensue.

**Purpose:** 

Parental cell: **Organism: Tissue:** Model: Gender: Isotype: IgG1 Reactivity: Human ; Dog Selectivity: Host: Immunogen: Canine and Human CdTn1 Immunogen UNIPROT ID: Sequence: **Growth properties:** 

Production details: Formulation: Recommended controls: IgG1 Bacterial resistance: Selectable markers: Additional notes:

# **Target details**

Target: Human Cardiac Troponin 1

Target alternate names:

Target background:

Molecular weight:

Ic50:

# **Applications**

Application: ELISA ; WB Application notes:

# Handling

Format: Concentration: Passage number: Growth medium: Temperature: Atmosphere: Volume: Storage medium: Storage buffer: Storage conditions: Shipping conditions: Shipping at 4° C

Cancer Tools.org

# **Related tools**

**Related tools:** 

# References

References: Shang et al. 2020. Nature. 581(7807):221-224. PMID: 32225175.

