

## PHOSPHO-CARDIAC TROPONIN I (SER22/SER23) RABBIT PAB

**Cat.#:** N225424

**Product Name:** Anti-Phospho-Cardiac Troponin I (Ser22/Ser23) Rabbit pAb

**Synonyms:** TNNI3; TNNC1; Troponin I; cardiac muscle; Cardiac troponin I

**UNIPROT ID:** P23693

**Background:** 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:** The antiserum was produced against synthesized peptide derived from rat TNNI3 around the phosphorylation site of Ser22 and Ser23. AA range:5-54

**Applications:** WB,IHC-P,ELISA

**Recommended Dilutions:** WB: 1/500-1/1000 IHC: 1/50-1/100 ELISA: 1/10000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Clone ID:** -

**MW:** Calculated MW: 24 kDa; Observed MW: 28 kDa

**Isotype:** IgG

**Purification:** Affinity Chromatography

**Species Reactivity:** Mouse,Rat

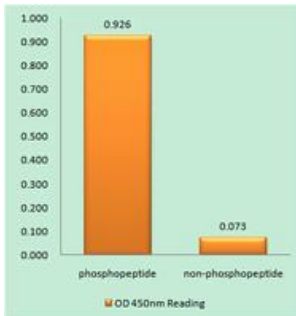
**Conjugation:** Unconjugated

**Modification:** Phosphorylated

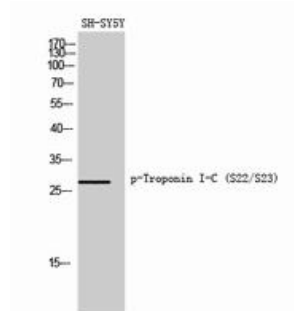
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

**Research Areas:** Signal Transduction

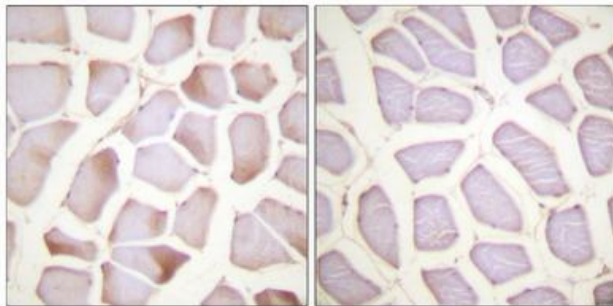
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



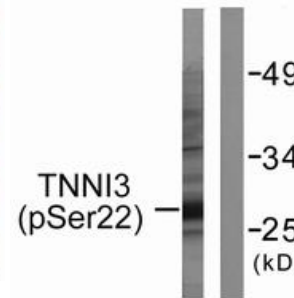
EnzymeLinked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phospho-peptide (Phospho-left) and NonPhospho-peptide (Phospho-right), using TNNI3 (Phospho-Ser22+Ser23) antibody.



Western blot analysis of Phospho-Cardiac Troponin I (Ser22/Ser23) in SH-SY5Y lysates using Phospho-Cardiac Troponin I (Ser22/Ser23) antibody.



Immunohistochemistry analysis of paraffin-embedded Human skeletal muscle using TNNI3 (Phospho-Ser22+Ser23) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval. Sample with blocking peptide on the right.



Western blot analysis of Phospho-Cardiac Troponin I (Ser22/Ser23) in mouse heart lysates using Phospho-Cardiac Troponin I (Ser22/Ser23) antibody. The lane on the right is blocked with the Phospho-peptide.