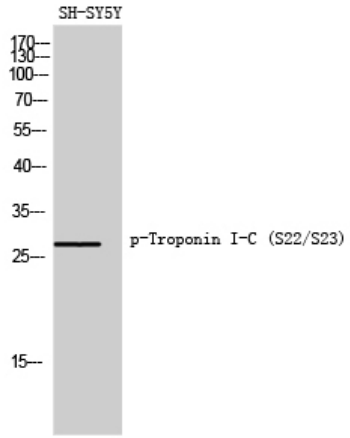
Troponin I-C (phospho Ser22/S23) Polyclonal Antibody

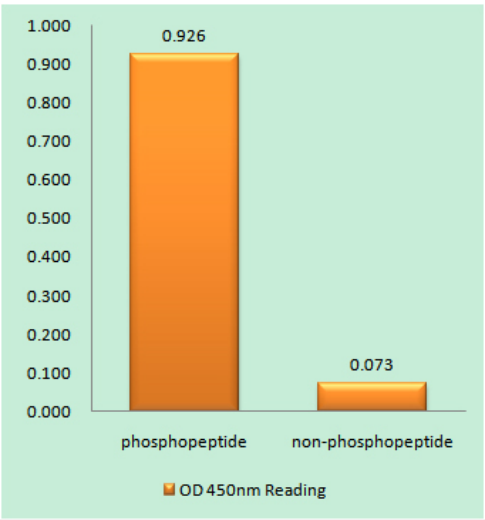
Catalog No	YP-Ab-03041
Isotype	IgG
Reactivity	Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	Tnni3
Protein Name	Troponin I cardiac muscle
Immunogen	The antiserum was produced against synthesized peptide derived from mouse TNNI3 around the phosphorylation site of Ser22 and Ser23. AA range:5-54
Specificity	Phospho-Troponin I-C (S22/S23) Polyclonal Antibody detects endogenous levels of Troponin I-C protein only when phosphorylated at S22/S23.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	TNNI3; TNNC1; Troponin I; cardiac muscle; Cardiac troponin I
Observed Band	28kD
Cell Pathway	
Tissue Specificity	
Function	
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).

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

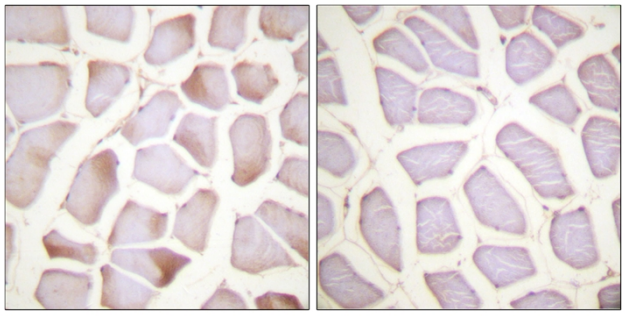
Products Images



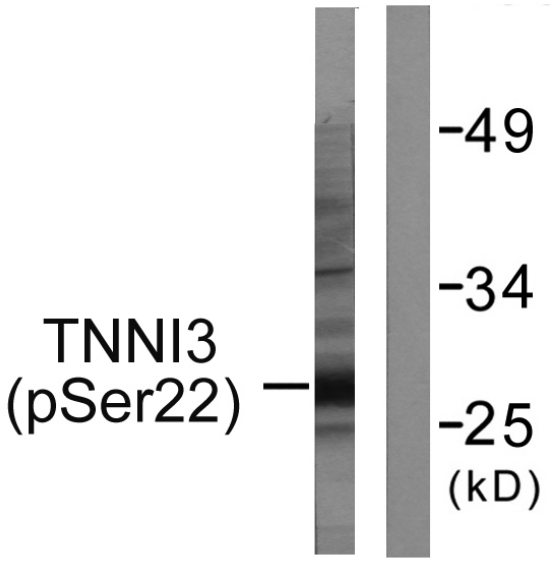
Western Blot analysis of SH-SY5Y cells using Phospho-Troponin I-C (S22/S23) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using TNNI3 (Phospho-Ser22+Ser23) Antibody



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle, using TNNI3 (Phospho-Ser22+Ser23) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from mouse heart, using TNNI3 (Phospho-Ser22+Ser23) Antibody. The lane on the right is blocked with the phospho peptide.