#13083 Store at -20C

Troponin I (D6F8) Rabbit mAb



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Applications: F WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit IgG	UniProt ID: #P19429	Entrez-Gene Id 7137	
Product Usage Information	Ар	plication			Dilution		
	We	stern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitiv	ity Trop	oonin I (D6F8) Rabb	it mAb recognize	es endogenous levels of	total troponin I proteir	1.	
Species predicted to react based on 100% sequence homology)	key					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human troponin I protein.					
Background	cont subt and and cont	Troponin, working in conjunction with tropomyosin, functions as a molecular switch that regulates muscle contraction in response to changes in the intracellular Ca2+ concentration. Troponin consists of three subunits: the Ca2+-binding subunit troponin C (TnC), the tropomyosin-binding subunit troponin T (TnT), and the inhibitory subunit troponin I (TnI) (1). In response to β-adrenergic stimulation of the heart, Ser23 and Ser24 of TnI (cardiac) are phosphorylated by PKA and PKC. This phosphorylation stimulates a conformational change of the regulatory domain of TnC, reduces the association between TnI and TnC, and decreases myofilament Ca2+ sensitivity by reducing the Ca2+ binding affinity of TnC (1-3).					
Background Referen		1. Ward, D.G. et al. (2002) <i>J. Biol. Chem.</i> 277, 41795-41801. 2. Noland, T.A. et al. (1995) <i>J. Biol. Chem.</i> 270, 25445-25454.					

3. Gaponenko, V. et al. (1999) J. Biol. Chem. 274, 16681-16684.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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