

# ***Life Diagnostics, Inc.***

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## ***Human Cardiac Troponin-I***

Catalog No.	1211
Analysis	SDS PAGE: Minor 24 kDa band with multiple low molecular weight fragmentation bands.
Western Blot	All bands on SDS PAGE reactive with Tn-I MAb.
Purity	≥95%
Concentration	0.25- 2 mg/ml
Buffer	8 M Urea, 50 mM Tris.HCl, 15 mM β-mercaptoethanol, 1 mM EDTA (pH 8.0)
Storage	-20°C (avoid repeated freeze thawing)
Source	Human cardiac tissue

Troponin I (TnI) is one of three subunits that form the troponin complex of the thin filaments of striated muscle. The troponin complex serves as a calcium-sensitive switch that regulates striated muscle contraction. Troponin I binds actin and inhibits actomyosin ATPase activity in the absence of calcium. Cardiac troponin I is characterized by a molecular weight of ~24 kDa. It is expressed only in the heart and has proved to be a specific biomarker for heart disease. Cardiac troponin-I is purified by ion-exchange chromatography in conjunction with calcium dependent affinity chromatography on troponin-C agarose. This partially degraded form of cardiac troponin-I can be used with good success as an immunogen for preparation of troponin-I antibodies.

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