

## CABP1400

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### Product Information

<b>Product SKU:</b>	CABP1400	<b>Gene ID:</b>	7137	<b>Size:</b>	20uL, 100uL
<b>Clone No:</b>	ARC56024	<b>Host Species:</b>	Rabbit	<b>Reactivity:</b>	Human

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### Additional Information

<b>Observed MW:</b>	Refer to figures	<b>Conjugate:</b>	Unconjugated
<b>Calculated MW:</b>	24kDa	<b>Isotype:</b>	IgG

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### Immunogen Information

**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). Troponin I is useful in making a diagnosis of heart failure, and of ischemic heart disease. An elevated level of troponin is also now used as indicator of acute myocardial injury in patients hospitalized with moderate/severe Coronavirus Disease 2019 (COVID-19). Such elevation has also been associated with higher risk of mortality in cardiovascular disease patients hospitalized due to COVID-19.

**Recommended Dilution:** IHC-P,1:500 - 1:1000

**Synonyms:** CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF; Phospho-Cardiac Troponin I (TNNI3)-S23/S24

**Purification Method:** Affinity purification

**Immunogen:** A synthetic phosphorylated peptide around S23 & S24 of human Cardiac Troponin I (TNNI3) (NP\_000354.4).

**Storage:** Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.