

## Product datasheet for **AP05656PU-N**

### Cardiac Troponin I (TNNI3) Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA
Recommended Dilution:	ELISA.
Reactivity:	Human
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Native human cardiac troponin I, purity greater than 98%.
Specificity:	This antibody recognises human cardiac-specific troponin I, (TnI) an integral inhibitory protein of cardiac muscle which exists as a complex with troponin C (TnC) and troponin T (TnT).
Formulation:	PBS buffer pH 7.4 containing 0.09% Sodium Azide (NaN <sub>3</sub> ) State: Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	troponin I3, cardiac type
Database Link:	<a href="#">Entrez Gene 7137 Human P19429</a>



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**Background:**

The TnT subunit of troponin binds to tropomyosin to form a troponin-tropomyosin complex, anchored in place by the binding of TnI to actin, within muscle thin filaments. Structural change resulting from the binding of calcium to specific sites on the regulatory TnC subunit, releases the inhibitory region of TnI from actin, enabling the attachment of the molecular motor protein myosin, allowing for muscle contraction and hence movement. The measurement of blood TnI and TnT levels is an important diagnostic indicator of heart muscle damage, and can be used to differentiate between angina and myocardial infarction in patients with chest pain. Troponin I has also been shown to inhibit angiogenesis *in vivo* and *in vitro*.

**Synonyms:**

TNNI3, TNNC1