

**ARG41156**  
anti-TNNI1 antibodyPackage: 50 µg  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Goat Polyclonal antibody recognizes TNNI1   |
| Tested Reactivity   | Hu, Ms  |
| Predict Reactivity  | Cow, Pig  |
| Tested Application  | WB  |
| Host                | Goat  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | TNNI1   |
| Species             | Human   |
| Immunogen           | Synthetic peptide around the N-terminus of Human TNNI1. (PEVERKPKITASRK-C, NP_003272.3) |
| Conjugation         | Un-conjugated   |
| Alternate Names     | Troponin I, slow-twitch isoform; SSTNI; TNN1; Troponin I, slow skeletal muscle          |

### Application Instructions

|                   |  |                  |
|-------------------|--|------------------|
| Application table | Application  | Dilution         |
|                   | WB   | 0.03 - 0.1 µg/ml |
| Application Note  | WB: Recommend incubate at RT for 1h.<br>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                  |
| Observed Size     | 25 kDa   |                  |

### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Ammonium sulphate precipitation followed by affinity purification with immunogen.  |
| Buffer              | Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.   |
| Preservative        | 0.02% Sodium azide   |
| Stabilizer          | 0.5% BSA   |
| Concentration       | 0.5 mg/ml  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

**Note**

For laboratory research only, not for drug, diagnostic or other use.

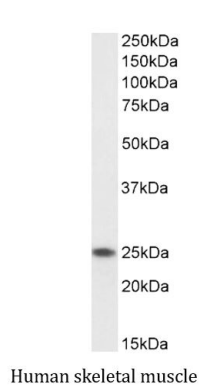
## Bioinformation

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|                |   |
|----------------|---|
| Gene Symbol    | TNNI1   |
| Gene Full Name | troponin I type 1 (skeletal, slow)  |
| Background     | <p>Troponin proteins associate with tropomyosin and regulate the calcium sensitivity of the myofibril contractile apparatus of striated muscles. 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. The TnI-fast and TnI-slow genes are expressed in fast-twitch and slow-twitch skeletal muscle fibers, respectively, while the TnI-cardiac gene is expressed exclusively in cardiac muscle tissue. This gene encodes the Troponin-I-skeletal-slow-twitch protein. This gene is expressed in cardiac and skeletal muscle during early development but is restricted to slow-twitch skeletal muscle fibers in adults. The encoded protein prevents muscle contraction by inhibiting calcium-mediated conformational changes in actin-myosin complexes. [provided by RefSeq, Jul 2008]</p> |
| Function       | <p>Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. [UniProt]</p>  |
| Calculated Mw  | 22 kDa  |

## Images

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### ARG41156 anti-TNNI1 antibody WB image

Western blot: 35 µg of Human skeletal muscle lysate (in RIPA buffer) stained with ARG41156 anti-TNNI1 antibody at 0.03 µg/ml dilution and incubated at RT for 1 hour.