

Recombinant Human TNNI2, GST-tagged

Cat. No. TNNI2-17H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNNI2(1 a.a. - 182 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. Mouse studies show that this component is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. In addition to muscle tissues, this protein is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a co-activator of estrogen receptor-related receptor alpha. This protein also suppresses tumor growth in human ovarian carcinoma. Mutations in this gene cause myopathy and distal arthrogryposis type 2B. Alternatively spliced transcript variants have been found for this gene.
Molecular Mass	47.7 kDa
AA Sequence	MGDEEKRNRITARRQHLKSVMLQIAATELEKEESRREAQKQNYLAEHCPPLHIPGS MSEVQELCKQLHAKIDAA EEEKYDMEVRVQKTSKELEDMNQKLFDLRGKFKRPPL

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RRVRMSADAMLKALLGSKHKVCMDLRANLKQVKKEDTE KERDLRDVGDWKRNIEE
KSGMEGRKKMFESSES

Applications ELISA; WB-Re; AP; Array

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [TNNI2 troponin I type 2 \(skeletal, fast\) \[Homo sapiens \(human\) \]](#)

Official Symbol TNNI2

Synonyms TNNI2; troponin I type 2 (skeletal, fast); troponin I, skeletal, fast; troponin I, fast skeletal muscle; AMCD2B; DA2B; FSSV; troponin I fast twitch 2; troponin I; fast twitch skeletal muscle isoform

Gene ID [7136](#)

mRNA Refseq [NM_003282](#)

Protein Refseq [NP_003273](#)

MIM [191043](#)

UniProt ID P48788

Chromosome Location 11p15.5

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Pathway	Muscle contraction; Striated Muscle Contraction
Function	contributes_to actin binding; protein binding; troponin T binding