

Code No. 10425

Anti-Titin-N (144A2) Mouse IgG MoAb

Volume : 100 µg

Introduction : Titin (connectin) is a protein that consists of 34,350 amino-acid and specifically expresses in a cross-striated muscle. The molecular weight of human titin is 3,816 kDa and it has been known that as the largest protein among of existing proteins in a living body. It is one of sarcomere structured protein that is a minimum unit of myofibrillary protein and it has a role as an elastic protein for recovering the length of shortened sarcomere by its contraction. It has been known that titin is cleaved by proteolytic enzymes such as calpain and matrix metalloprotease if muscles are damaged. Titin N-Fragment, one of these fragments, is 26kDa N-terminus fragments which is excreted into the urine. It has been researched in the field of muscular dystrophy, sports medicine, cardiac disease, NAFLD, sarcopenia and frailty and it is considered as a molecule reflects status of muscles. This antibody can be used for ELISA to detect human urinary Titin N-Fragment.

Antigen	ecombinant Titin (1-200)	
Source	louse-Mouse hybridoma (63-Ag8.653×BALB/c mouse spleen cells)	
Clone	44A2 Subclass : IgG _{2b}	
Purification	ffinity purified with ProteinA	
Form	yophilized product from in Dulbecco's-PBS	
How to use	1 mL deionized water will be added to the product, then its con- mg/mL	centration comes to
Stability	yophilized product, 5 years at 2 – 8 $^\circ \! { m C}$ olution, 2 years at –20 $^\circ \! { m C}$	
Application	LISA	
Reference	laruyama N, Asai T, Abe C, Inada A, Kawauchi T, Miyashita I I,Matsuo M, Nabeshima Y. Establishment of a highly s LISA for the N-terminal fragment of titin in urine. Sci Rep. 201	ensitive sandwich

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