

Anti-MYOZ1(Myozenin-1) Polyclonal Antibody

Cat. # :60B257

Description:

Myozenins may serve as intracellular binding proteins involved in linking Z-disk proteins such as alpha-actinin, gamma-filamin, TCAP/telethonin, LDB3/ZASP and localizing calcineurin signaling to the sarcomere. MYOZ1(Myozenin-1) plays an important role in the modulation of calcineurin signaling. MYOZ1 may play a role in myofibrillogenesis. MYOZ1 interacts with ACTN2, ACTN3, FLNA, FLNB, FLNC, LDB3, PPP3CA and TCAP and interacts via its C-terminal region with MYOT. MYOZ1 is localized to the nucleus and pseudopodia of undifferentiated cells and detected throughout the myotubes of differentiated cells. MYOZ1 colocalizes with ACTN2, FLNC and MYOT at the Z-lines of skeletal muscle. MYOZ1 is expressed primarily in skeletal muscle and specifically enriched in the gastrocnemius, which is composed predominantly of fast-twitch muscle fibers.

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of mouse myozenin 1(skeletal muscle-specific protein; calcineurin-2;calsarcin-2)

References

Faulkner,G., et al, J. Biol. Chem. 275 (52), 41234-41242 (2000)
Frey,N., et al, Proc. Natl. Acad. Sci. U.S.A. 97 (26), 14632-14637 (2000)

Species: mouse, human
Storage and Stability: at -20oC

Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)