

Triadin (IIG12): sc-59724

BACKGROUND

Triadin is a junctional terminal cisternae protein found mainly in human skeletal muscle. The gene TRDN, which encodes for the protein, maps to chromosome 6q22.31. Triadin, a type II membrane protein, is involved in anchoring calsequestrin to the sarcoplasmic reticulum, allowing its coupling with the ryanodine receptor (RyR). Triadin inhibits the calcium channel activity of ryanodine receptor in skeletal muscle and co-localizes with RyR in the junctional sarcoplasmic reticulum membrane.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Trdn (mouse) mapping to 10 A4.

SOURCE

Triadin (IIG12) is a mouse monoclonal antibody raised against skeletal muscle triads of rabbit origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Triadin (IIG12) is recommended for detection of Triadin of mouse, rat and rabbit origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)]; non cross-reactive with Triadin from cardiac tissues.

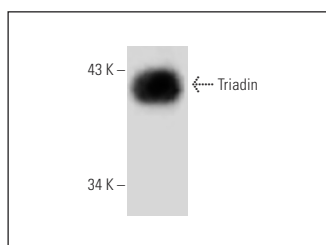
Suitable for use as control antibody for Triadin siRNA (m): sc-44414, Triadin shRNA Plasmid (m): sc-44414-SH and Triadin shRNA (m) Lentiviral Particles: sc-44414-V.

Molecular Weight of cardiac Triadin: 40 kDa.

Molecular Weight of skeletal muscle Triadin: 95 kDa.

Positive Controls: mouse heart extract: sc-2254 or mouse embryonic heart tissue extract.

DATA



Triadin (IIG12): sc-59724. Western blot analysis of Triadin expression in mouse embryonic heart tissue extract. Detection reagent used: m-IgGκ BP-HRP: sc-516102.

SELECT PRODUCT CITATIONS

- Feng, Y., Valley, M.T., Lazar, J., Yang, A.L., Bronson, R.T., Firestein, S., Coetzee, W.A. and Manley, J.L. 2009. SRp38 regulates alternative splicing and is required for Ca²⁺ handling in the embryonic heart. *Dev. Cell* 16: 528-538.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.