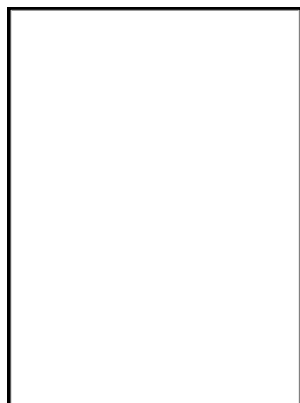


# Characterization and purification of TS28, a novel protein localized to the transverse tubules of rabbit skeletal muscle

National Library of Canada - Identification of novel proteins unique to either transverse tubules (TS28) or the sarcolemma (SL50) in rabbit skeletal muscle



Description: -

-Characterization and purification of TS28, a novel protein localized to the transverse tubules of rabbit skeletal muscle

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β

An excursion through the ultrastructural world of quick-frozen pancreatic islets.

## Biogenesis of transverse tubules and triads: immunolocalization of the 1,4

In addition, a prominent band of 35 kD was visible in skeletal muscle Fig. A Human amphiphysin II contiguous sequence obtained from a Pileup analysis of the human clones shown in B. In contrast, TS28 is absent from the lateral portion of the sarcolemma.

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A phase-contrast image of a field of proliferating myoblasts A and multinucleated myotubes B. One known function of KHC is to transport recycling membranes between the ER and Golgi apparatus. Note that: a complete tetrads can be slightly distorted; b the apparently missing components of incomplete tetrads may actually be elements DHPs that broke during fracturing, leaving small stumps see bottom left ; and c some incomplete tetrads seem to lack one or more components bottom right.

## Role of Ryanodine Receptors in the Assembly of Calcium Release Units in Skeletal Muscle

Both amphiphysin IIa and IIb were recognized by antibodies directed against either NH 2-terminal CD 9 or COOH-terminal CD7 and CD8 epitopes. Coverslips and slide sections were mounted in Vectashield containing 4,6-diamino-2-phenylindole nuclear stain Vector Labs. Note that alternatively spliced fragments I and II Fig.

## **The Sarcoplasmic Reticulum of Skeletal Muscle: A Look from Inside**

Because KIF3A can dimerize with both KIF3B and KIF3C, it is logical that the expression of KIF3A is dependent on the expression of either of its motor partners.

**β**

. Coimmunoprecipitating motorless-KIF3B from transfected C2C12 cells by using an antibody against GFP demonstrated that motorless-KIF3B dimerizes with endogenous, wild-type KIF3A FigureA. Distinct immunopeptide maps of the sarcoplasmic reticulum Ca<sup>2+</sup> release channel in malignant hyperthermia.

## **The skeletal muscle ryanodine receptor isoform 1 is found at the intercalated discs in human and mouse hearts, Journal of Muscle Research and Cell Motility**

The CD9 antibody also recognized a few other bands in brain, suggesting the existence of additional amphiphysin isoforms. Are caveolae the mouths of the transverse tubule system? The expression and localization of KIF3B in C2C12 myoblasts and myotubes mimicked KIF3B labeling of primary myogenic cultures isolated from mouse embryos our unpublished results. Like KIF3A, KHC is not detected in the crude protein lysate of adult mouse skeletal muscle; but KHC is detected by immunoprecipitation from the crude protein lysate of adult skeletal muscle by using the monoclonal KHC antibody H2 FigureE.

## **Proteoglycans are present in the transverse tubule system of skeletal muscle**

These results suggest that components other than Ry 1Rs are responsible for targeting DHPs and triadin to junctional regions. Extracting with buffer alone examines the strength of the motor—cargo interaction; whereas extracting in the presence of detergent examines whether those motors fractionated to the insoluble, high-speed pellet P3 are associated with membranous vesicles. This is compared with the control transfection of a GFP construct where only 10% of transfected cells display abnormal HP lectin labeling quantification, Figure C.

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