

Anti-Syncoilin/Sync Antibody Picoband®

Catalog Number: A06159-2

About Sync

Syncoilin is a muscle-specific atypical type III intermediate filament protein encoded in the human by the gene SYNC. This gene encodes a member of the intermediate filament family which contains an N-terminal head domain, followed by a central coiled-coil region and a short C-terminal tail. The protein is highly expressed in skeletal and cardiac muscle. The protein links the dystrophin associated protein complex (DAPC) to desmin filaments in muscle and may have a structural role in striated muscle. Multiple transcript variants encoding different isoforms have been found for this gene.

Overview

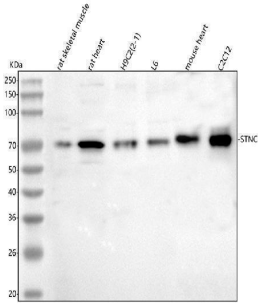
Product Name	Anti-Syncoilin/Sync Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Syncoilin/Sync Antibody Picoband® catalog # A03863-3. Tested in WB, FCM, ELISA applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9EPM5

Technical Details

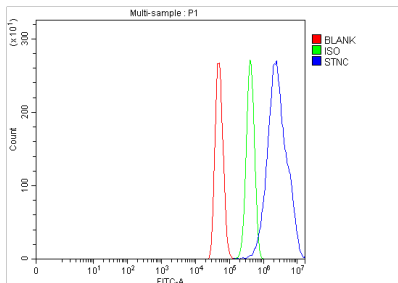
Immunogen	E.coli-derived mouse Syncoilin/Sync recombinant protein (Position: D11-Q465). Mouse Sync shares 76.6% amino acid (aa) sequence identity with human Sync.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug /1x10 ⁶ cells, Mouse ELISA, 0.1-0.5 ug/ml, -

Anti-Syncoilin/Sync Antibody Picoband® (A06159-2) Images



Western blot analysis of Syncoilin/Sync using anti-Syncoilin/Sync antibody (A06159-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat skeletal muscle tissue lysates, Lane 2: rat heart tissue lysates, Lane 3: rat H9C2(2-1) whole cell lysates, Lane 4: rat L6 whole cell lysates, Lane 5: mouse heart tissue lysates, Lane 6: mouse C2C12 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Syncoilin/Sync antigen affinity purified polyclonal antibody (Catalog # A06159-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Syncoilin/Sync at approximately 72 kDa. The expected band size for Syncoilin/Sync is at 54 kDa.



Flow Cytometry analysis of C2C12 cells using anti-Syncoilin/Sync antibody (A06159-2). Overlay histogram showing C2C12 cells stained with A06159-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Syncoilin/Sync Antibody (A06159-2, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Submit a product review to [Biocompare.com](https://www.biocompare.com)

Submit a review of this product to [Biocompare.com](https://www.biocompare.com) to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Syncoilin/Sync Antibody

For Research Use Only. Not for use in diagnostic procedures.