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antibody and ELISA experts

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Anti-SREBP2/SREBF2 Antibody Picoband®

Catalog Number: A01678-2

About SREBF2

Sterol regulatory element-binding protein 2 (SREBP-2) also known as sterol regulatory element binding transcription factor 2 (SREBF2) is a protein that in humans is encoded by the SREBF2 gene. This gene encodes a member of the a ubiquitously expressed transcription factor that controls cholesterol homeostasis by regulating transcription of sterol-regulated genes. The encoded protein contains a basic helix-loop-helix-leucine zipper (bHLH-Zip) domain and binds the sterol regulatory element 1 motif. Alternate splicing results in multiple transcript variants.

Overview

Product Name	Anti-SREBP2/SREBF2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SREBP2/SREBF2 Antibody Picoband® catalog # A01678-2. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, 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 Na2HPO4.
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	Q12772

Technical Details

Immunogen	E.coli-derived human SREBP2/SREBF2 recombinant protein (Position: R371-L409).
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	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human, Rat ELISA, 0.1-0.5 ug/ml, -

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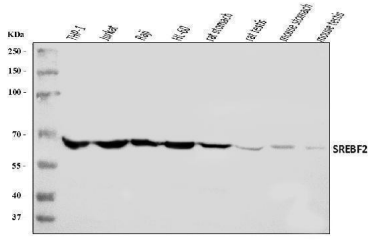
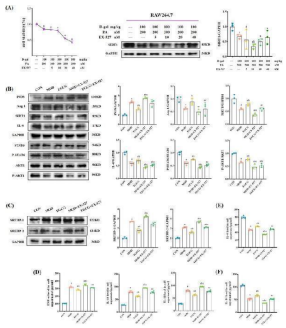
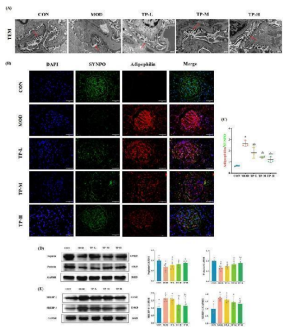
Anti-SREBP2/SREBF2 Antibody Picoband® (A01678-2) Images



Western blot analysis of SREBP2/SREBF2 using anti-SREBP2/SREBF2 antibody (A01678-2). 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: human THP-1 whole cell lysates, Lane 2: human Jurkat whole cell lysates, Lane 3: human Raji whole cell lysates, Lane 4: human HL-60 whole cell lysates, Lane 5: rat stomach tissue lysates, Lane 6: rat testis tissue lysates, Lane 7: mouse stomach tissue lysates, Lane 8: mouse testis tissue 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-SREBP2/SREBF2 antigen affinity purified polyclonal antibody (Catalog # A01678-2) 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 SREBP2/SREBF2 at approximately 68 kDa. The expected band size for SREBP2/SREBF2 is at 124 kDa.



SIRT1 inhibitor EX-527 increased M1-like macrophage and lipid accumulation by EGCG in the model cells. (A) Determination of the optimal concentration of EX-527. n = 3. (B) Representative WB images and quantitative analysis of the level of iNOS, Arg-1, SIRT1, IL-4, P-STAT6, and P-AKT1 in the RAW264.7 cells. n = 3 (C) Representative WB images and quantitative analysis of the level of SREBP-1 and SREBP-2 in the MPC5 cells. n = 3. (D) Levels of TNF-alpha, IL-18, and IL-1beta in supernatant. n = 6. (E, F) Levels of IL-4 and IL-10 in supernatant. n = 6. Compared with the CON group, a p



TP improved podocyte lipid accumulation and injury in the aging with DKD model rats. (A) Representative TEM images of podocytes in kidney tissues of rats. 20,000×, n = 3. (B) Representative immunofluorescence colocalization images of SYNPO (green fluorescence) and Adipophilin (red fluorescence). 400×, n = 3. (C) The analysis of mean fluorescence density ratio of Adipophilin to SYNPO assay from each group of rats. (D) Representative WB images and quantification of the expression of Nephrin and Podocin. n = 6. (E) Representative WB images and quantification of the expression of SREBP-1 and SREBP-2. n = 6. Compared with the CON group, a p

SIRT1 agonist SRT1720 increased M2-like macrophage and decreased lipid deposition by EGCG in the model cells. (A)

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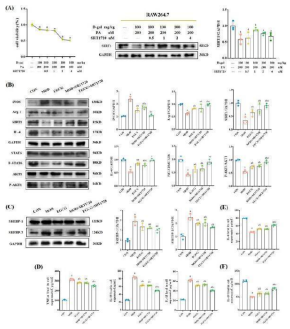
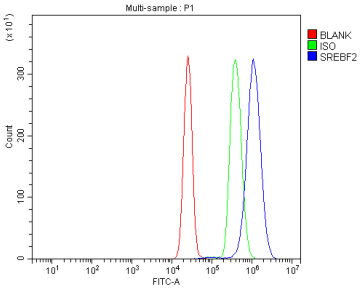
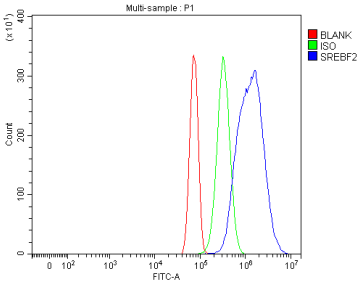


Determination of the optimal concentration of SRT1720 (n = 3). (B) Representative WB images and quantitative analysis of the level of iNOS, Arg-1, SIRT1, IL-4, P-STAT6, and P-AKT1 in the RAW264.7 cells (n = 3). (C) Representative WB images and quantitative analysis of the level of SREBP-1 and SREBP-2 in the MPC5 cells (n = 3). (D) Levels of TNF-alpha, IL-18, and IL-1beta in supernatant (n = 6). (E, F) Levels of IL-4 and IL-10 in supernatant (n = 6). Compared with the CON group, a p



Flow Cytometry analysis of K562 cells using anti-SREBP2/SREBF2 antibody (A01678-2). Overlay histogram showing K562 cells stained with A01678-2 (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-SREBP2/SREBF2 Antibody (A01678-2, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



Flow Cytometry analysis of RH35 cells using anti-SREBP2/SREBF2 antibody (A01678-2). Overlay histogram showing RH35 cells stained with A01678-2 (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-SREBP2/SREBF2 Antibody (A01678-2, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Anti-SREBP2/SREBF2 Antibody

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