BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-SCRIBBLE Antibody Picoband™

Catalog Number: A01651

About SCRIB

SCRIB, also known as Scribble, SCRIBL, or Scribbled homolog (Drosophila), is a scaffold protein which in humans is encoded by the SCRIB gene. In Drosophila melanogaster, SCRIB is involved in synaptic function, neuroblast differentiation, and epithelial polarization. Mechanistically, the human homolog is a scaffold protein linked to cellular differentiation centered on the regulation of epithelial as well as neuronal morphogenesis. Deficiency in SCRIB impairs many aspects of cell polarity and cell movement. SCRIB is also likely involved in establishing apical-basal polarity as well as progression from the G1 phase to S phase in the cell cycle as a result of its relationship with cell proliferation and exocytosis.

Overview

Product Name	Anti-SCRIBBLE Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SCRIBBLE Antibody Picoband™ catalog # A01651. Tested in ELISA, Flow Cytometry, IF, IHC-P, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, Flow Cytometry, IF, IHC-P, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q14160

Technical Details

Immunogen	E. coli-derived human SCRIBBLE recombinant protein (Position: F172-K409).
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml Immunocytochemistry/Immunofluorescence, 2ug/ml Flow Cytometry, 1-3ug/1x10^6 cells Direct ELISA, 0.1-0.5ug/ml

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Anti-SCRIBBLE Antibody Picoband™ (A01651) Images

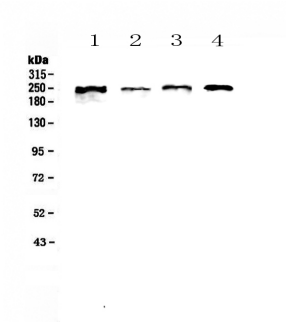

Figure 1. Western blot analysis of SCRIBBLE using anti-SCRIBBLE antibody (A01651).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human MCF-7 whole cell lysates,
Lane 2: human COLO-320 whole cell lysates,
Lane 3: human 22RV1 whole cell lysates,
Lane 4: human SGC-7901 whole cell lysates.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-SCRIBBLE antigen affinity purified polyclonal antibody (Catalog # A01651) 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 1:10000 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 SCRIBBLE at approximately 240KD. The expected band size for SCRIBBLE is at 175KD.

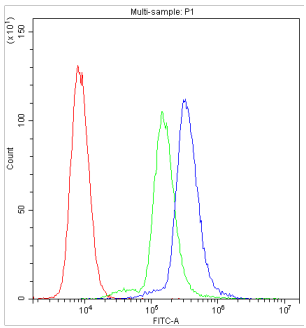

Figure 2. Flow Cytometry analysis of A549 cells using anti-SCR1B antibody (A01651).
Overlay histogram showing A549 cells stained with A01651 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SCR1B Antibody (A01651,1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

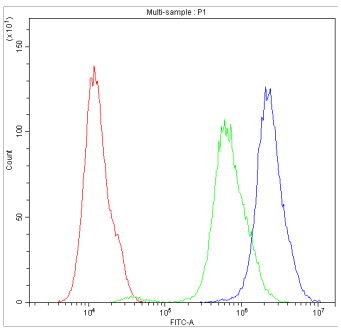

Figure 3. Flow Cytometry analysis of HepG2 cells using anti-SCR1B antibody (A01651).
Overlay histogram showing HepG2 cells stained with A01651 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SCR1B Antibody (A01651,1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Figure 4. IF analysis of SCRIBBLE using anti-SCRIBBLE antibody (A01651).
SCRIBBLE was detected in immunocytochemical section of

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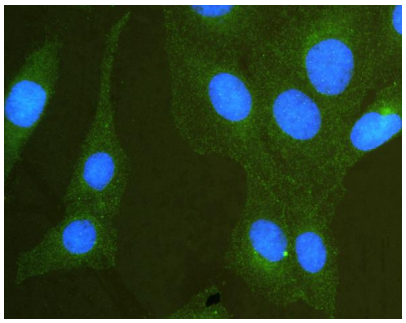

U20S cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2ug/mL rabbit anti-SCRIBBLE Antibody (A01651) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Anti-SCRIBBLE Antibody ™