

Anti-gamma Synuclein/SNCG Antibody Picoband®

Catalog Number: A03523-4

About SNCG

Gamma-synuclein is a protein that in humans is encoded by the SNCG gene. This gene encodes a member of the synuclein family of proteins which are believed to be involved in the pathogenesis of neurodegenerative diseases. Mutations in this gene have also been associated with breast tumor development.

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Overview

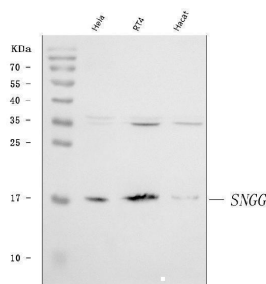
Product Name	Anti-gamma Synuclein/SNCG Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-gamma Synuclein/SNCG Antibody Picoband® catalog # A03523-4. Tested in Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody 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	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	O76070

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human gamma Synuclein/SNCG, which shares 53.8% amino acid (aa) sequence identity with rat SNCG.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

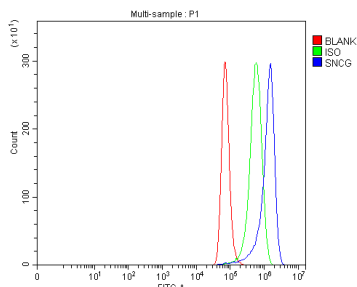
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 µg/ml, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human Note: For flow cytometry (FCM), validated for fixed cells only. Not validated for FACS or surface flow cytometry using live cells.

Anti-gamma Synuclein/SNCG Antibody Picoband® (A03523-4) Images



Western blot analysis of gamma Synuclein/SNCG using anti-gamma Synuclein/SNCG antibody (A03523-4).

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 Hela whole cell lysates, Lane 2: human RT4 whole cell lysates, Lane 3: human Haca1 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-gamma Synuclein/SNCG antigen affinity purified polyclonal antibody (Catalog # A03523-4) 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 gamma Synuclein/SNCG at approximately 17 kDa. The expected band size for gamma Synuclein/SNCG is at 13 kDa.



Flow Cytometry analysis of Hela cells using anti-gamma Synuclein/SNCG antibody (A03523-4). Overlay histogram showing Hela cells stained with A03523-4 (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-gamma Synuclein/SNCG Antibody (A03523-4, 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-gamma Synuclein/SNCG Antibody

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