

## Anti-SPT5/SUPT5H Antibody Picoband®

Catalog Number: A03426-2

### About SUPT5H

Transcription elongation factor SPT5 is a protein that in humans is encoded by the SUPT5H gene. Enables enzyme binding activity and protein heterodimerization activity. Involved in positive regulation of macroautophagy; regulation of RNA metabolic process; and transcription elongation from RNA polymerase II promoter. Located in nucleoplasm. Part of DSIF complex.

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## Overview

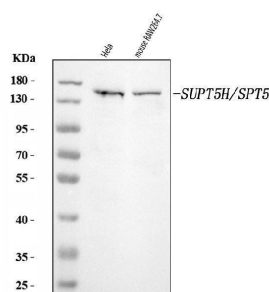
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-SPT5/SUPT5H Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reactive Species     | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Description          | Boster Bio Anti-SPT5/SUPT5H Antibody Picoband® catalog # A03426-2. Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse. 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, IF, IHC, ICC, WB                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                                                                    |
| 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           | O00267                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Technical Details

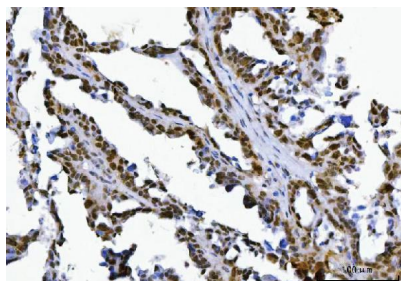
|                               |                                                                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | E.coli-derived human SPT5/SUPT5H recombinant protein (Position: Q533-A1087).                                                                                                             |
| 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 IHC(P) and 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.                                                                                                                                                                                                                                                                                                                                                     |
| Purification        | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                  |
| Suggested Dilutions | <p>Western blot, 0.25-0.5 ug/ml, Human, Mouse<br/> Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human<br/> Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human<br/> Flow Cytometry (Fixed), 1-3 ug/1x10<sup>6</sup> cells, Human<br/> ELISA, 0.1-0.5 ug/ml, -</p> <p>Note: For flow cytometry (FCM), validated for fixed cells only. Not validated for FACS or surface flow cytometry using live cells.</p> |

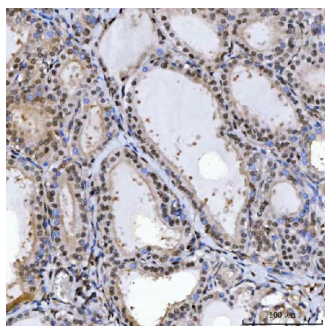
## Anti-SPT5/SUPT5H Antibody Picoband® (A03426-2) Images



Western blot analysis of SPT5/SUPT5H using anti-SPT5/SUPT5H antibody (A03426-2). 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 Hela whole cell lysates, Lane 2: mouse RAW264.7 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-SPT5/SUPT5H antigen affinity purified polyclonal antibody (Catalog # A03426-2) 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 SPT5/SUPT5H at approximately 150 kDa. The expected band size for SPT5/SUPT5H is at 121 kDa.

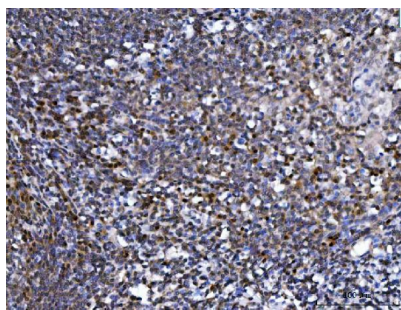


IHC analysis of SPT5/SUPT5H using anti-SPT5/SUPT5H antibody (A03426-2). SPT5/SUPT5H was detected in a paraffin-embedded section of human ovarian serous carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SPT5/SUPT5H Antibody (A03426-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

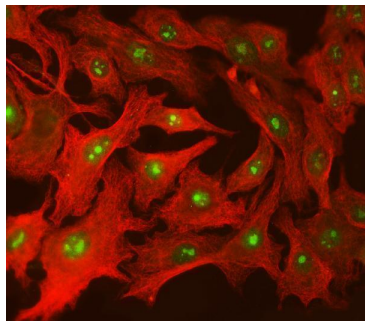


IHC analysis of SPT5/SUPT5H using anti-SPT5/SUPT5H antibody (A03426-2). SPT5/SUPT5H was detected in a paraffin-embedded section of human thyroiditis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SPT5/SUPT5H Antibody (A03426-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

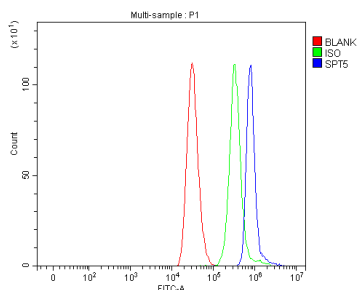
IHC analysis of SPT5/SUPT5H using anti-SPT5/SUPT5H antibody (A03426-2). SPT5/SUPT5H was detected in a paraffin-embedded section of human tonsil tissue. Heat



mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SPT5/SUPT5H Antibody (A03426-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IF analysis of SPT5/SUPT5H using anti-SPT5/SUPT5H antibody (A03426-2) and anti-Tubulin beta antibody (M05613-4). SPT5/SUPT5H was detected in immunocytochemical section of A549 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 5ug/mL rabbit anti-SPT5/SUPT5H Antibody (A03426-2) and mouse anti-Tubulin beta Antibody (M05613-4) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) and DyLight®550 Conjugated Goat Anti-Mouse IgG were used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of THP-1 cells using anti-SPT5/SUPT5H antibody (A03426-2). Overlay histogram showing THP-1 cells stained with A03426-2 (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-SPT5/SUPT5H Antibody (A03426-2, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

### Anti-SPT5/SUPT5H Antibody

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