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antibody and ELISA experts

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Anti-TRAP alpha/TRAPA/SSR1 Antibody Picoband™

Catalog Number: A06993-1

About SSR1

Translocon-associated protein subunit alpha is a protein that in humans is encoded by the SSR1 gene. The signal sequence receptor (SSR) is a glycosylated endoplasmic reticulum (ER) membrane receptor associated with protein translocation across the ER membrane. The SSR consists of 2 subunits, a 34-kD glycoprotein encoded by this gene and a 22-kD glycoprotein. This gene generates several mRNA species as a result of complex alternative polyadenylation. This gene is unusual in that it utilizes arrays of polyA signal sequences that are mostly non-canonical. Multiple transcript variants encoding different isoforms have been found for this gene.

Overview

Product Name	Anti-TRAP alpha/TRAPA/SSR1 Antibody Picoband™
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-TRAP alpha/TRAPA/SSR1 Antibody Picoband™ catalog # A06993-1. Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4.
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	P43307

Technical Details

Immunogen	E.coli-derived human SSR1 recombinant protein (Position: E53-E286).
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.

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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, 0.1-0.25ug/ml, Human, Mouse, Rat, Monkey Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5ug/ml, Human Flow Cytometry, 1-3ug/1x10^6 cells, Human Direct ELISA, 0.1-0.5ug/ml, Human

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Anti-TRAP alpha/TRAPA/SSR1 Antibody Picoband™ (A06993-1) Images

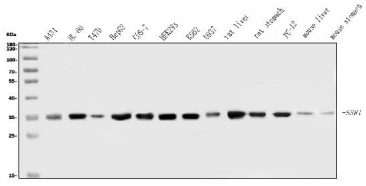

Figure 1. Western blot analysis of TRAP Alpha/TRAPA/SSR1 using anti-TRAP Alpha/TRAPA/SSR1 antibody (A06993-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human A431 whole cell lysates,
Lane 2: human HL-60 whole cell lysates,
Lane 3: human T-47D whole cell lysates,
Lane 4: human HepG2 whole cell lysates,
Lane 5: monkey COS-7 whole cell lysates,
Lane 6: human HEK293 whole cell lysates,
Lane 7: human K562 whole cell lysates,
Lane 8: human U937 whole cell lysates,
Lane 9: rat liver tissue lysates,
Lane 10: rat stomach tissue lysates,
Lane 11: rat PC-12 whole cell lysates,
Lane 12: mouse liver tissue lysates,
Lane 13: mouse stomach 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-TRAP Alpha/TRAPA/SSR1 antigen affinity purified polyclonal antibody (Catalog # A06993-1) at 0.25 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 TRAP Alpha/TRAPA/SSR1 at approximately 36 kDa. The expected band size for TRAP Alpha/TRAPA/SSR1 is at 32 kDa.

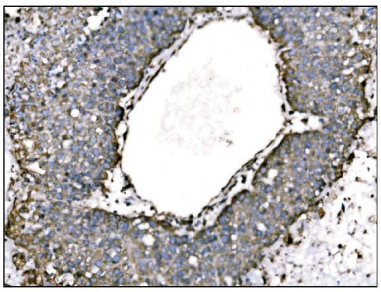

Figure 2. IHC analysis of TRAP Alpha/TRAPA/SSR1 using anti-TRAP Alpha/TRAPA/SSR1 antibody (A06993-1).
TRAP Alpha/TRAPA/SSR1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-TRAP Alpha/TRAPA/SSR1 Antibody (A06993-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

Figure 3. IHC analysis of TRAP Alpha/TRAPA/SSR1 using anti-TRAP Alpha/TRAPA/SSR1 antibody (A06993-1).
TRAP Alpha/TRAPA/SSR1 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer

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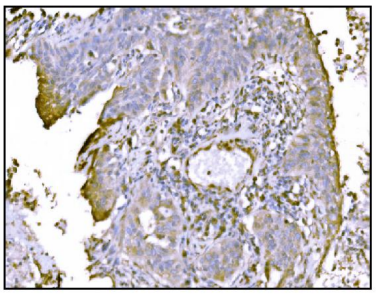

(pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-TRAP Alpha/TRAPA/SSR1 Antibody (A06993-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

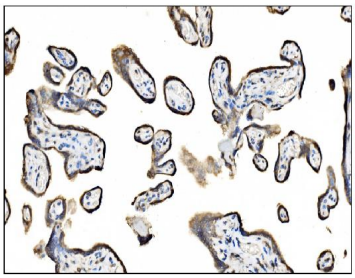

Figure 4. IHC analysis of TRAP Alpha/TRAPA/SSR1 using anti-TRAP Alpha/TRAPA/SSR1 antibody (A06993-1).
TRAP Alpha/TRAPA/SSR1 was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-TRAP Alpha/TRAPA/SSR1 Antibody (A06993-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

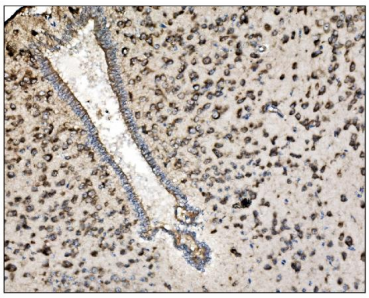

Figure 5. IHC analysis of TRAP Alpha/TRAPA/SSR1 using anti-TRAP Alpha/TRAPA/SSR1 antibody (A06993-1).
TRAP Alpha/TRAPA/SSR1 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-TRAP Alpha/TRAPA/SSR1 Antibody (A06993-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

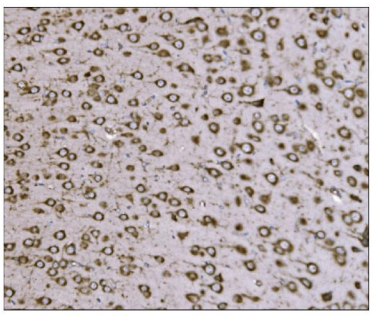

Figure 6. IHC analysis of TRAP Alpha/TRAPA/SSR1 using anti-TRAP Alpha/TRAPA/SSR1 antibody (A06993-1).
TRAP Alpha/TRAPA/SSR1 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-TRAP Alpha/TRAPA/SSR1 Antibody (A06993-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

Figure 7. IF analysis of TRAP Alpha/TRAPA/SSR1 using anti-TRAP Alpha/TRAPA/SSR1 antibody (A06993-1).

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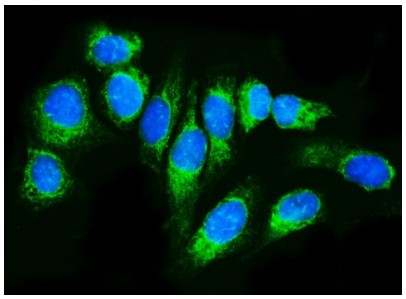

TRAP Alpha/TRAPA/SSR1 was detected in an immunocytochemical section of U20S cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-TRAP Alpha/TRAPA/SSR1 Antibody (A06993-1) 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.

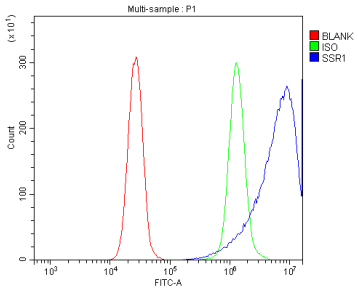

Figure 8. Flow Cytometry analysis of K562 cells using anti-TRAP Alpha/TRAPA/SSR1 antibody (A06993-1). Overlay histogram showing K562 cells stained with A06993-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TRAP Alpha/TRAPA/SSR1 Antibody (A06993-1, 1 ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

1 Publications Citing This Product

1. PubMed ID: 10.1007/s00774-011-0302-8, The role of alpha-zearalanol in reversing bone loss induced by ovarian hormone deficiency in rats

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