BOSTER
antibody and ELISA experts

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Anti-Antigen peptide transporter 1 TAP1 Antibody

Catalog Number: A01123

About TAP1

Pseudokinase which, in complex with CAB39/MO25 (CAB39/MO25alpha or CAB39L/MO25beta), binds to and activates STK11/LKB1. Adopts a closed conformation typical of active protein kinases and binds STK11/LKB1 as a pseudosubstrate, promoting conformational change of STK11/LKB1 in an active conformation.

Scanlan M.J., Cancer Immun. 1:4-4(2001).
Ota T., Nat. Genet. 36:40-45(2004).
Baas A.F., EMBO J. 22:3062-3072(2003).

Overview

Product Name	Anti-Antigen peptide transporter 1 TAP1 Antibody
Reactive Species	Human, Rat
Description	Boster Bio Anti-Antigen peptide transporter 1 TAP1 Antibody catalog # A01123. Tested in IP, IHC, WB applications. This antibody reacts with Human, Rat.
Application	IP, IHC, WB
Clonality	Polyclonal
Formulation	Liquid. Whole rabbit serum.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q03518

Technical Details

Immunogen	Synthetic peptide corresponding to a portion of human TAP1 .
Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid. Whole rabbit serum.
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.

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Purification	-
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: Immunoprecipitation (1:100) Western Blot (ECL, 1:1,000-1:4000) Suggested dilutions/conditions may not be available for all applications. Optimal conditions must be determined individually for each application.

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Anti-Antigen peptide transporter 1 TAP1 Antibody (A01123) Images

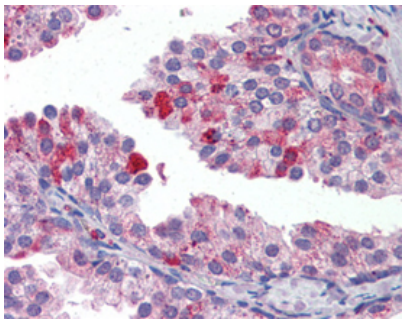

Figure 1. IHC analysis of TAP1 using anti-TAP1 antibody (A01123).
TAP1 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-TAP1 Antibody (A01123) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody 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.

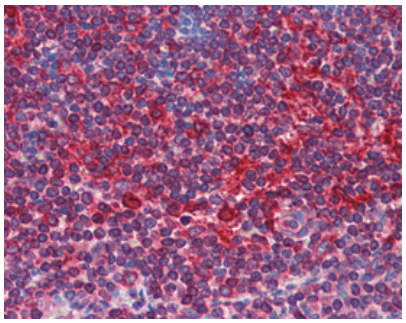

Figure 2. IHC analysis of TAP1 using anti-TAP1 antibody (A01123).
TAP1 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-TAP1 Antibody (A01123) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody 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.

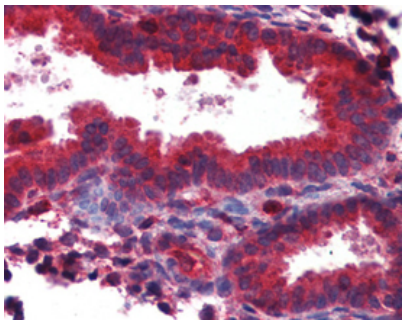

Figure 3. IHC analysis of TAP1 using anti-TAP1 antibody (A01123).
TAP1 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-TAP1 Antibody (A01123) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody 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.

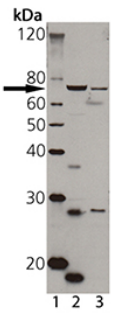

Figure 4. Western blot analysis of TAP1 using anti-TAP1 antibody (A01123).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins 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-TAP1 antigen affinity purified polyclonal antibody (Catalog # A01123) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed

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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 # SA1022) with Tanon 5200 system. A specific band was detected for TAP1.

Anti-Antigen peptide transporter 1 TAP1 Antibody