

Anti-TRAF1 Antibody Picoband™

Catalog Number: A01365

About TRAF1

TRAF1 (TNF Receptor-Associated Factor 1), also called EBI6, is a protein that in humans is encoded by the TRAF1 gene. The protein encoded by this gene is a member of the TNF receptor (TNFR) associated factor (TRAF) protein family. Sieminski et al. (1997) used fluorescence in situ hybridization to map the TRAF1 gene to 9q33-q34. Mosialos et al. (1995) found that LMP1, the EBV-transforming protein, specifically associates with LAP1 (TRAF3) or EBI6 in B lymphoblasts. LMP1 expression redirects LAP1 and EBI6 from scattered cytoplasmic structures to LMP1 plasma membrane patches. Both LAP1 and EBI6 associated with the cytoplasmic domain of p80/TNFR2 in vivo.

Overview

Product Name	Anti-TRAF1 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-TRAF1 Antibody Picoband™ catalog # A01365. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
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	Q13077

Technical Details

Immunogen	E.coli-derived human TRAF1 recombinant protein (Position: D14-D404).
Predicted Reactive Species	Human
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 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.25-0.5ug/ml, Human</p> <p>Flow Cytometry, 1-3ug/1x10⁶ cells, Human</p> <p>Direct ELISA, 0.1-0.5ug/ml, Human</p>

Anti-TRAF1 Antibody Picoband™ (A01365) Images

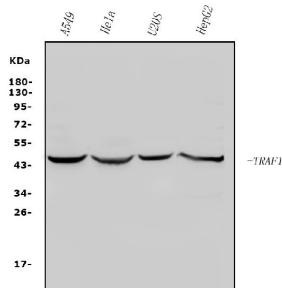


Figure 1. Western blot analysis of TRAF1 using anti-TRAF1 antibody (A01365).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human A549 whole cell lysates,
Lane 2: human HELA whole cell lysates,
Lane 3: human U2OS whole cell lysates,
Lane 4: human HEPG2 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-TRAF1 antigen affinity purified polyclonal antibody (Catalog # A01365) 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 TRAF1 at approximately 46KD. The expected band size for TRAF1 is at 46KD.

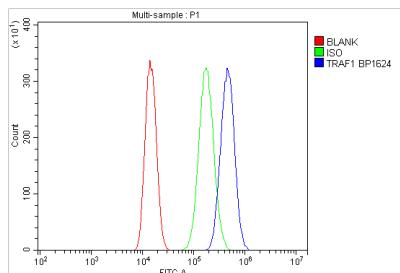


Figure 2. Flow Cytometry analysis of A549 cells using anti-TRAF1 antibody (A01365).
Overlay histogram showing A549 cells stained with A01365 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TRAF1 Antibody (A01365, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight® 488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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