

Anti-ITK Antibody Picoband™

Catalog Number: A01385-2

About ITK

Tyrosine-protein kinase ITK/TSK, also known as interleukin-2-inducible T-cell kinase or simply ITK, is a protein that in humans is encoded by the ITK gene. It is a member of the TEC family of kinases. This gene is mapped to 5q33.3. This gene encodes an intracellular tyrosine kinase expressed in T-cells. The protein is thought to play a role in T-cell proliferation and differentiation. Furthermore, ITK is functionally important for the development and effector function of Th2 and Th17 cells.

Overview

Product Name	Anti-ITK Antibody Picoband™
Reactive Species	Human, Mouse
Description	Boster Bio Anti-ITK Antibody Picoband™ catalog # A01385-2. Tested in WB applications. This antibody reacts with Human, Mouse.
Application	WB
Clonality	Polyclonal G9
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg 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	Q08881

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ITK, different from the related mouse sequence by five amino acids.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

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, 0.1-0.5ug/ml, Human, Mouse

Anti-ITK Antibody Picoband™ (A01385-2) Images

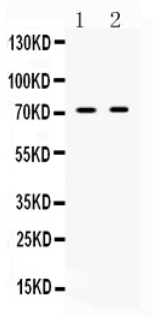


Figure 1. Western blot analysis of ITK using anti-ITK antibody (A01385-2).

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 50ug of sample under reducing conditions. lane 1: HELA whole cell lysates, lane 2: NIH3T3 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-ITK antigen affinity purified polyclonal antibody (Catalog # A01385-2) 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 1:10000 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 ITK at approximately 72KD. The expected band size for ITK is at 72KD.

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