



[Go to Product page](#)

Datasheet for ABIN6243870
anti-ITK antibody (AA 228-262)

1 Image

Overview

Quantity:	400 µL
Target:	ITK
Binding Specificity:	AA 228-262
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ITK antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This ITK antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 228-262 amino acids from the Central region of human ITK.
Clone:	RB50773
Isotype:	Ig Fraction
Predicted Reactivity:	M
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	ITK
Alternative Name:	ITK (ITK Products)

Target Details

Background: Tyrosine kinase that plays an essential role in regulation of the adaptive immune response. Regulates the development, function and differentiation of conventional T-cells and nonconventional NKT-cells. When antigen presenting cells (APC) activate T-cell receptor (TCR), a series of phosphorylation lead to the recruitment of ITK to the cell membrane, in the vicinity of the stimulated TCR receptor, where it is phosphorylated by LCK. Phosphorylation leads to ITK autophosphorylation and full activation. Once activated, phosphorylates PLCG1, leading to the activation of this lipase and subsequent cleavage of its substrates. In turn, the endoplasmic reticulum releases calcium in the cytoplasm and the nuclear activator of activated T-cells (NFAT) translocates into the nucleus to perform its transcriptional duty. Phosphorylates 2 essential adapter proteins: the linker for activation of T-cells/LAT protein and LCP2. Then, a large number of signaling molecules such as VAV1 are recruited and ultimately lead to lymphokine production, T-cell proliferation and differentiation.

Molecular Weight: 71831

UniProt: [Q08881](#)

Pathways: [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#)

Application Details

Application Notes: WB: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

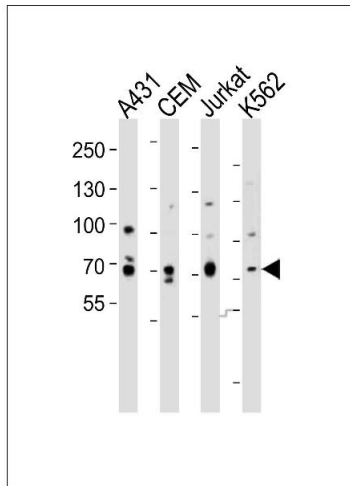
Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Expiry Date: 6 months



Western Blotting

Image 1. Western blot analysis of lysates from A431, CEM, Jurkat, K562 cell line (from left to right), using ITK Antibody (Center) (ABIN6243870 and ABIN6577737). (ABIN6243870 and ABIN6577737) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20 µg per lane.