

Datasheet for ABIN967287 anti-ITK antibody (AA 1-26)



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Overview

Quantity:	50 µg
Target:	ITK
Binding Specificity:	AA 1-26
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ITK antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Fusion protein with aa.1-26 of human/mouse Itk
Clone:	2F12
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	ITK
Alternative Name:	ITK (ITK Products)
Background:	<p>Itk (IL-2 inducible tyrosine kinase) is a member of the TEC family of intracellular tyrosine kinases. Members of this family are characterized by their role in hematopoietic cell signaling. Itk is expressed primarily in T cells and has been shown to play a role in T-cell antigen receptor (TCR) mediated proliferation, interleukin-2 production, and T cell differentiation. Itk, following stimulation of the TCR becomes phosphorylated on tyrosine 511 by the Src kinase Lck resulting in increased in vitro Itk kinase activity. If phenylalanine is substituted for tyrosine at position 511, the in vivo kinase activity of Itk is drastically diminished, indicating that this site plays a key role in regulating Itk function. Itk migrates at ~72 kDa on SDS/PAGE. (SWISSPROT: Q08881)</p>
Molecular Weight:	72 kDa
Pathways:	TCR Signaling , Fc-epsilon Receptor Signaling Pathway

Application Details

Comment:	Related Products: ABIN968537
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % 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
Storage Comment:	Store undiluted at 4°C.

Publications

Product cited in:	<p>Liu, Bunnell, Gurniak, Berg: "T cell receptor-initiated calcium release is uncoupled from capacitative calcium entry in Itk-deficient T cells." in: The Journal of experimental medicine, Vol. 187, Issue 10, pp. 1721-7, (1998) (PubMed).</p>
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Heyeck, Wilcox, Bunnell, Berg: "Lck phosphorylates the activation loop tyrosine of the Itk kinase domain and activates Itk kinase activity." in: **The Journal of biological chemistry**, Vol. 272, Issue 40, pp. 25401-8, (1997) ([PubMed](#)).

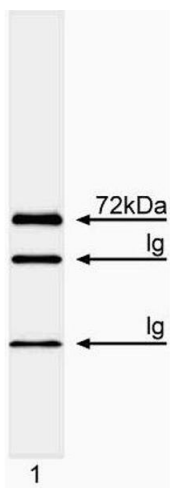
Siliciano, Morrow, Desiderio: "Itk, a T-cell-specific tyrosine kinase gene inducible by interleukin 2." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 89, Issue 23, pp. 11194-8, (1993) ([PubMed](#)).

Images



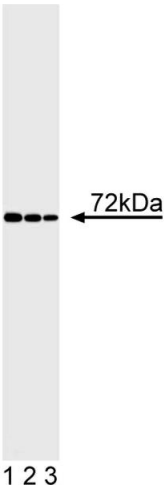
Western Blotting

Image 1. Western blot analysis of Itk. Lysate from Jurkat cells was probed with anti-Itk (clone 2F12, ABIN967287) at concentrations of 0.25 (lane 1), 0.125 (lane 2), and 0.06 myg/ml (lane 3). Itk is identified as a band at ~72 kDa.



Western Blotting

Image 2. Immunoprecipitation/western blot analysis of Itk. Lysates from Jurkat cells were first immunoprecipitated (2 myg/1 x 10⁶ cells) with anti-Itk (clone 2F12, ABIN967287) and then the western blot was probed with the same antibody at a concentration of 0.5 myg/ml. Itk is identified as a band of ~72 kDa.



Western Blotting

Image 3.