

Datasheet for ABIN968265 anti-FYB antibody (AA 673-783)



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Overview

Quantity:	50 µg
Target:	FYB
Binding Specificity:	AA 673-783
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FYB antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human FYB aa. 673-783
Clone:	5-FYB
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. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	FYB
Alternative Name:	FYB (FYB Products)
Background:	<p>Engagement of the T cell receptor (TcR) results in the activation of multiple intracellular src protein tyrosine kinases (PTKs) including p56 [lck] and p59 [fyn]. PTK activation induces TcRzeta phosphorylation and the subsequent recruitment and activation of ZAP-70 which specifically phosphorylates SLP-76. SLP-76 interacts with multiple components of T cell signaling pathways, including Grb-2, PLC-gamma, Vav, and SLAP-130 (also known as SLP-76 Associated Phosphoprotein of 130 kDa). SLAP-130 contains multiple tyrosine based motifs, proline base type I and II SH3 domain binding motifs, lysine/glutamic acid rich nuclear localization motifs, and an SH3-like domain. It associates with the SH2 domain of SLP-76 and is phosphorylated by TcR induced PTKs. This protein has also been reported to directly interact with fyn and has been referred to as fyn binding protein (FYB). Co-transfection data has shown that a limited concentration of FYB/SLAP-130 enhances TcR-induced IL-2 production, while overexpression downregulates gene expression. Thus, FYB/SLAP-130 is viewed to be a regulatory component of the fyn/SLP-76 signaling cascade in T cells.</p> <p>Synonyms: Fyn Binding Protein, SLAP-130</p>
Molecular Weight:	130 kDa
Pathways:	TCR Signaling , Protein targeting to Nucleus

Application Details

Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤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:	-20 °C

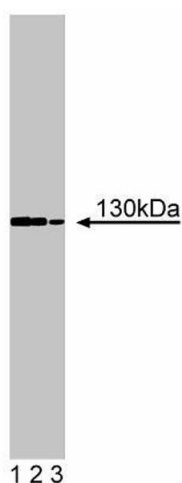
Handling

Storage Comment: Store undiluted at -20° C.

Publications

- Product cited in:
- Geng, Pfister, Kraeft, Rudd: "Adaptor FYB (Fyn-binding protein) regulates integrin-mediated adhesion and mediator release: differential involvement of the FYB SH3 domain." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 98, Issue 20, pp. 11527-32, (2001) ([PubMed](#)).
- Oda, Ikeda, Ochs, Druker, Ozaki, Handa, Ariga, Sakiyama, Witte, Wahl: "Rapid tyrosine phosphorylation and activation of Bruton's tyrosine/Tec kinases in platelets induced by collagen binding or CD32 cross-linking." in: **Blood**, Vol. 95, Issue 5, pp. 1663-70, (2000) ([PubMed](#)).
- da Silva, Li, de Vera, Canto, Findell, Rudd: "Cloning of a novel T-cell protein FYB that binds FYN and SH2-domain-containing leukocyte protein 76 and modulates interleukin 2 production." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 94, Issue 14, pp. 7493-8, (1997) ([PubMed](#)).
- Musci, Hendricks-Taylor, Motto, Paskind, Kamens, Turck, Koretzky: "Molecular cloning of SLAP-130, an SLP-76-associated substrate of the T cell antigen receptor-stimulated protein tyrosine kinases." in: **The Journal of biological chemistry**, Vol. 272, Issue 18, pp. 11674-7, (1997) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of FYB on a Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152) . Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-human FYB antibody.