

Datasheet for ABIN94465

anti-SIT1 antibody[Go to Product page](#)

7 Images

2 Publications

Overview

Quantity:	0.1 mg
Target:	SIT1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SIT1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Flow Cytometry (FACS)

Product Details

Immunogen:	Bacterially produced recombinant intracellular fragment of human SIT.
Clone:	SIT-01
Isotype:	IgG1
Specificity:	The antibody SIT-01 reacts with an intracellular epitope of SHP2-interacting transmembrane adaptor protein (SIT) expressed exclusively in lymphoid organs. It weakly crossreacts with murine SIT.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	SIT1
Alternative Name:	SIT (SIT1 Products)
Background:	Signaling threshold regulating transmembrane adapt,SIT is a 21 kDa transmembrane adaptor protein expressed exclusively in lymphoid organs. It acts either as a positive or as a negative regulatory element in T cell activation and in T cell development. Binding to Grb2 plays a pivotal role in signal transduction. Hubener et al. (2001) determined that the SIT gene contains 5 exons and spans 1.8 kb of genomic DNA. The SIT promoter demonstrated strong transcriptional activity and potential binding sites for both ubiquitous and lymphoid-specific transcription factors.,SIT1
Gene ID:	27240
UniProt:	Q9Y3P8

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL, intracellular staining. Western blotting: Recommended dilution: 1-2 µg/mL, reducing conditions.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM 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.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

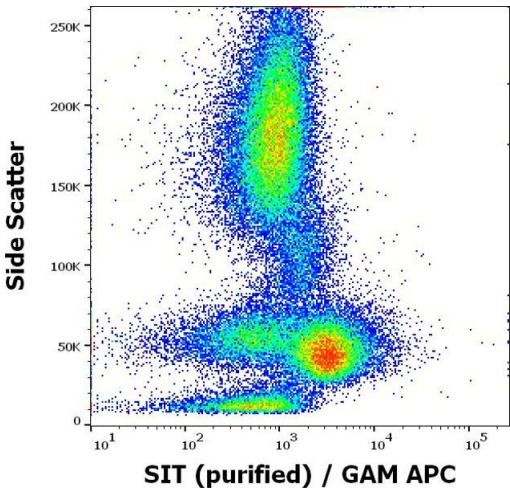
Publications

Product cited in:	Tedoldi, Paterson, Hansmann, Natkunam, Rüdiger, Angelisova, Du, Roberton, Roncador, Sanchez, Pozzobon, Masir, Barry, Pileri, Mason, Marafioti, Horejsi: "Transmembrane adaptor molecules: a new category of lymphoid-cell markers." in: Blood , Vol. 107, Issue 1, pp. 213-21, (
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2005) ([PubMed](#)).

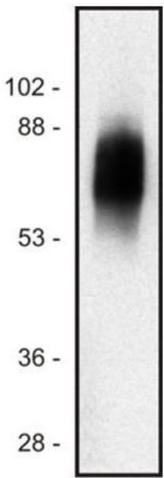
Horejsí, Zhang, Schraven: "Transmembrane adaptor proteins: organizers of immunoreceptor signalling." in: **Nature reviews. Immunology**, Vol. 4, Issue 8, pp. 603-16, (2004) ([PubMed](#)).

Images



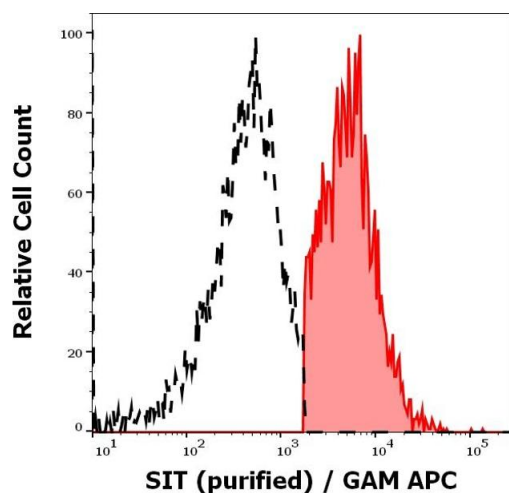
Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human peripheral whole blood using anti-SIT (SIT-01) purified antibody (concentration in sample 9 µg/mL, GAM APC).



Western Blotting

Image 2. Western blot of human Jurkat T cell line



Flow Cytometry

Image 3. Separation of human CD3 negative SIT positive lymphocytes (red-filled) from CD3 negative SIT negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of peripheral whole blood stained using anti-SIT (SIT-01) purified antibody (concentration in sample 9 $\mu\text{g/mL}$, GAM APC).

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN94465.