

Datasheet for ABIN125717  
**anti-SIT1 antibody (PE)**[Go to Product page](#)

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## Overview

Quantity:	0.1 mg
Target:	SIT1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SIT1 antibody is conjugated to PE
Application:	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 antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

Target:	SIT1
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## Target Details

Alternative Name:	SIT ( <a href="#">SIT1 Products</a> )
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:	<a href="#">Q9Y3P8</a>

## Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL. Intracellular staining.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Restrictions:	For Research Use only

## Handling

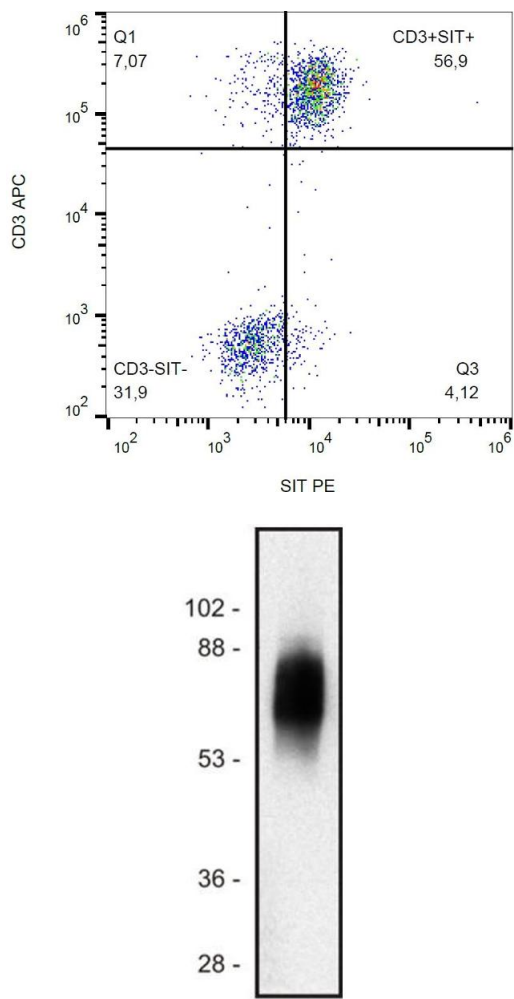
Concentration:	0.1 mg/mL
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<b>Do not freeze.</b> Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

## Publications

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

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



### Flow Cytometry

**Image 1.** Flow cytometry analysis (intracellular staining) of human peripheral blood using anti-SIT (clone SIT-01) PE.

### Western Blotting

**Image 2.** Western blot of human Jurkat T cell line