

ARG53961 anti-SIT antibody [SIT-01] (PE)

Package: 50 µg
Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [SIT-01] recognizes SIT
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone SIT-01 reacts with SHP2-interacting transmembrane adaptor protein (SIT) expressed exclusively in lymphoid organs. It weakly crossreacts with mouse SIT.
Host	Mouse
Clonality	Monoclonal
Clone	SIT-01
Isotype	IgG1
Target Name	SIT
Species	Human
Immunogen	Bacterially produced recombinant intracellular fragment of human SIT.
Conjugation	PE
Alternate Names	gp30/40; Signaling threshold-regulating transmembrane adapter 1; SIT; SHP2-interacting transmembrane adapter protein; SIT-R; Suppression-inducing transmembrane adapter 1

Application Instructions

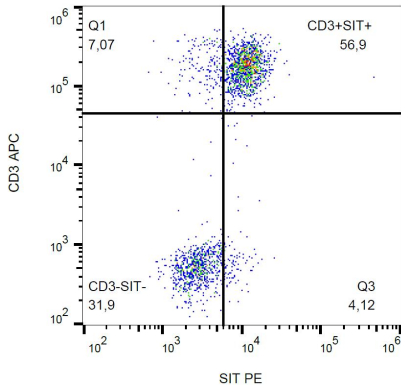
Application table	Application	Dilution
	FACS	1 - 5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Concentration	0.1 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.
<div>Bioinformation</div>	
Database links	GeneID: 27240 Human Swiss-port # Q9Y3P8 Human
Gene Symbol	SIT1
Gene Full Name	signaling threshold regulating transmembrane adaptor 1
Background	SIT (SHP2-interacting transmembrane adaptor protein) is expressed exclusively in lymphoid organs and 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.
Function	Negatively regulates TCR (T-cell antigen receptor)-mediated signaling in T-cells. Involved in positive selection of T-cells. [UniProt]
Research Area	Signaling Transduction antibody
Calculated Mw	21 kDa
PTM	Phosphorylated on tyrosines by LCK, FYN or ZAP70 upon TCR activation; which leads to the recruitment of PTPN11, GRB2 and CSK.

Images



ARG53961 anti-SIT antibody [SIT-01] (PE) FACS image

Flow Cytometry: Human peripheral blood stained with ARG53961 anti-SIT antibody [SIT-01] (PE) and anti-CD3 antibody (APC).