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Product datasheet for SM3074P

SIT (SIT1) Mouse Monoclonal Antibody [Clone ID: SIT-01]

Product data:

Product Type:	Primary Antibodies
Clone Name:	SIT-01
Applications:	FC, IP, WB
Recommended Dilution:	**Flow Cytometry**: 1-5 µg/ml (intracellular staining). **Immunoprecipitation.** **Western Blot:** 1-2 µg/ml, reducing conditions. Western blot analysis demonstrated that SIT is expressed as an approximately 40 kDa protein that is reduced to approximately 20 kDa by endoglycosidase treatment.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Bacterially produced recombinant intracellular fragment of human SIT
Specificity:	The antibody reacts with SHP2-interacting transmembrane adaptor protein (SIT) expressed exclusively in lymphoid organs.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography; purity: > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. **DO NOT FREEZE!**
Stability:	Shelf life: one year from despatch.
Gene Name:	signaling threshold regulating transmembrane adaptor 1
Database Link:	Entrez Gene 27240 Human Q9Y3P8

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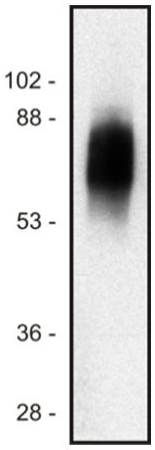
Background: SIT (SHP2-interacting transmembrane adaptor protein) is expressed exclusively in lymphoid organs and acts either as a positive or as a negative regulatory element in T cell activation and in T cell development. Binding to Grb2 plays a pivotal role in signal transduction. Hubener et al. (2001) 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.

Synonyms: gp30/40; MGC125908; MGC125909; MGC125910; RP11-331F9.5; SIT

Protein Families: Transmembrane

Product images:



Western blot of human Jurkat T cell line lysate (1% laurylmaltoside); non-reduced sample, immunostained bymAbSIT-01 andgoat anti-mouse IgG (H+L)-HRPconjugate.