

Human SIT1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5016

Species Reactivity	Human		
Specificity	Detects human SIT1 in direct ELISAs and Western blots.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human SIT1 Gln65-Ser196 Accession # Q9Y3P8		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Human SIT1

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
	*Small peak aize (SD) is shipped with polar peaks. Upon requirt, eters it immediately at 20 to 70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

SIT1 (SHP-2-interacting transmembrane adapter 1; also signaling threshold-regulating transmembrane adapter 1) is a 35-40 kDa type I transmembrane glycoprotein that belongs to a diverse group of transmembrane adapter proteins. It is expressed on thymocytes, plasma cells and T cells. When engaged, SIT1 downregulates TCR signaling. Mature human SIT1 is 172 amino acids (aa) in length. It contains a short extracellular domain (aa 25-40) that undergoes homodimerization and an extensive intracellular region (aa 62-196) that contains three key phosphorylation sites (Tyr90/169/188). Over aa 65-196, human SIT1 is 86% and 80% aa identical to canine and mouse SIT1, respectively.

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