

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SIT1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SIT1 Gln65-Ser196 Accession # Q9Y3P8
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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