

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human SIT1 in direct ELISAs and Western blots.                                                                                                                                                                                                                      |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human SIT1<br>Gln65-Ser196<br>Accession # Q9Y3P8                                                                                                                                                                                        |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

#### PRODUCT SPECIFIC NOTICES

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