

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SH2D2A in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SH2D2A Ile279-Gln389 Accession # Q9NP31
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

SH2D2A (SH2 domain-containing protein 2A; also TSA_d and VRAP) is a 52 kDa protein best described as a multifunctional intracellular adaptor molecule. It is expressed in activated CD4⁺ and CD8⁺ T cells, endothelial cells, and fibroblasts. SH2D2A is found in both cytoplasm and nucleus, and has multiple binding partners. After TCR activation, SH2D2A interacts with LCK, prolonging its activity. It also binds to SMAD2 and SMAD3, and constitutively interacts with PI3K and PLC γ , thus participating in VEGF:KDR signaling. Human SH2D2A is 389 amino acids (aa) in length and contains one SH2 domain (aa 95-186) and a Pro-rich region (aa 187-389). Phosphorylation occurs on Y39, Y216 and Y305, and on S217 and S296.

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