

Datasheet for ABIN7602498
anti-RASGRP1 antibody (AA 8-678)



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Overview

Quantity:	100 µg
Target:	RASGRP1
Binding Specificity:	AA 8-678
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RASGRP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-RASGRP1 Antibody Picoband®
Immunogen:	E.coli-derived human RASGRP1 recombinant protein (Position: R8-Q678).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-RASGRP1 Antibody Picoband® (ABIN7602498). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	RASGRP1
Alternative Name:	RASGRP1 (RASGRP1 Products)
Background:	<p>Synonyms: Endoglin, Cell surface MJ7/18 antigen, CD105, Eng, Edg,</p> <p>Background: RAS guanyl-releasing protein 1 is a protein that in humans is encoded by the RASGRP1 gene. This gene is a member of a family of genes characterized by the presence of a Ras superfamily guanine nucleotide exchange factor (GEF) domain. It functions as a diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP. It activates the Erk/MAP kinase cascade and regulates T-cells and B-cells development, homeostasis and differentiation. Alternatively spliced transcript variants encoding different isoforms have been identified. Altered expression of the different isoforms of this protein may be a cause of susceptibility to systemic lupus erythematosus (SLE).</p>
Molecular Weight:	100 kDa
Gene ID:	10125
UniProt:	O95267
Pathways:	TCR Signaling , Fc-epsilon Receptor Signaling Pathway

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Bivona, T. G., Perez de Castro, I., Ahearn, I. M., Grana, T. M., Chiu, V. K., Lockyer, P. J., Cullen, P. J., Pellicer, A., Cox, A. D., Philips, M. R. Phospholipase C-gamma activates Ras on the Golgi apparatus by means of RasGRP1. <i>Nature</i> 424: 694-698, 2003. 2. Bottorff, D., Ebinu, J., Stone, J. C. RasGRP, a Ras activator: mouse and human cDNA sequences and chromosomal positions. <i>Mammalian Genome</i> 10: 358-361, 1999. 3. Ebinu, J. O., Bottorff, D. A., Chan, E. Y. W., Stang, S. L., Dunn, R. J., Stone, J. C. RasGRP, a Ras guanyl nucleotide-releasing protein with calcium- and diacylglycerol-binding motifs. <i>Science</i> 280: 1082-1086, 1998.</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
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Handling

Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.