

Datasheet for ABIN7602151
anti-R-Spondin 4 antibody (AA 60-206)



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Overview

Quantity:	100 µg
Target:	R-Spondin 4 (RSP04)
Binding Specificity:	AA 60-206
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This R-Spondin 4 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), ELISA

Product Details

Purpose:	Anti-RSP04 Antibody Picoband®
Immunogen:	E.coli-derived human RSP04 recombinant protein (Position: R60-K206). Human RSP04 shares 82.2% amino acid (aa) sequence identity with mouse RSP04.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Anti-RSP04 Antibody Picoband® (ABIN7602151). Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. 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:	R-Spondin 4 (RSP04)
Alternative Name:	RSP04 (RSP04 Products)
Background:	Synonyms: 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70 kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody Tissue Specificity: Expressed in all tissues. Background: For chromosome 20, R-spondin 4 is a protein in humans that is encoded by the RSP04 gene. This gene encodes a member of the R-spondin family of proteins that share a common domain organization consisting of a signal peptide, cysteine-rich/furin-like domain, thrombospondin domain and a C-terminal basic region. The encoded protein may be involved in activation of Wnt/beta-catenin signaling pathways. Mutations in this gene are associated with anonychia congenital. Alternate splicing results in multiple transcript variants.
Molecular Weight:	26 kDa
Gene ID:	343637
UniProt:	Q2I0M5

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Bergmann, C., Senderek, J., Anhuf, D., Thiel, C. T., Ekici, A. B., Poblete-Gutierrez, P., van Steensel, M., Seelow, D., Nurnberg, G., Schild, H. H., Nurnberg, P., Reis, A., Frank, J., Zerres, K. Mutations in the gene encoding the Wnt-signaling component R-spondin 4 (RSP04) cause autosomal recessive anonychia. Am. J. Hum. Genet. 79: 1105-1109, 2006. 2. Blaydon, D. C., Ishii, Y., O'Toole, E. A., Unsworth, H. C., Teh, M.-T., Ruschendorf, F., Sinclair, C., Hopsu-Havu, V.
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Application Details

K., Tidman, N., Moss, C., Watson, R., de Berker, D., Wajid, M., Christiano, A. M., Kelsell, D. P. The gene encoding R-spondin 4 (RSPO4), a secreted protein implicated in Wnt signaling, is mutated in inherited anonychia. Nature Genet. 38: 1245-1247, 2006. 3. Bruchle, N. O., Frank, J., Frank, V., Senderek, J., Akar, A., Koc, E., Rigopoulos, D., van Steensel, M., Zerres, K., Bergmann, C. RSPO4 is the major gene in autosomal-recessive anonychia and mutations cluster in the furin-like cysteine-rich domains of the Wnt signaling ligand R-spondin 4. J. Invest. Derm. 128: 791-796, 2008.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
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 Na2HPO4.
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.