

Datasheet for ABIN7601675
anti-ITGA4 antibody (AA 41-963)



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Overview

Quantity:	100 µg
Target:	ITGA4
Binding Specificity:	AA 41-963
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ITGA4 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-Integrin Alpha 4/Itga4 Antibody Picoband®
Immunogen:	E.coli-derived mouse Integrin Alpha 4/Itga4 recombinant protein (Position: Y41-D963). Mouse Itga4 shares 85.2% amino acid (aa) sequence identity with human Itga4.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Anti-Integrin Alpha 4/Itga4 Antibody Picoband® (ABIN7599424). Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with 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:	ITGA4
Alternative Name:	Itga4 (ITGA4 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: CD49d is an integrin alpha subunit. It makes up half of the $\alpha 4\beta 1$ lymphocyte homing receptor. The gene encodes a member of the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 4 subunit. This subunit associates with a beta 1 or beta 7 subunit to form an integrin that may play a role in cell motility and migration. This integrin is a therapeutic target for the treatment of multiple sclerosis, Crohn's disease and inflammatory bowel disease. Alternative splicing results in multiple transcript variants.
Molecular Weight:	150-180 kDa
Gene ID:	16401
UniProt:	Q00651
Pathways:	Integrin Complex

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells, Mouse ELISA, 0.1-0.5 µg/mL, - 1. Cunningham, S. A., Rodriguez, J. M., Arrate, M. P., Tran, T. M., Brock, T. A. JAM2 interacts with
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Application Details

alpha-4/beta-1: facilitation by JAM3. J. Biol. Chem. 277: 27589-27592, 2002. 2. Fernandez-Ruiz, E., Pardo-Manuel de Villena, F., Rubio, M. A., Corbi, A. L., Rodriguez de Cordoba, S., Sanchez-Madrid, F. Mapping of the human VLA-alpha-4 gene to chromosome 2q31-q32. Europ. J. Immun. 22: 587-590, 1992. 3. Garmy-Susini, B., Jin, H., Zhu, Y., Sung, R.-J., Hwang, R., Varner, J. Integrin alpha-4-beta-1--VCAM-1--mediated adhesion between endothelial and mural cells is required for blood vessel maturation. J. Clin. Invest. 115: 1542-1551, 2005.

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.