

Datasheet for ABIN7599692
anti-ROBO4 antibody (AA 108-933)



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Overview

Quantity:	100 µg
Target:	ROBO4
Binding Specificity:	AA 108-933
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ROBO4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-ROBO4 Antibody Picoband®
Immunogen:	E.coli-derived human ROBO4 recombinant protein (Position: D108-A933).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ROBO4 Antibody Picoband® (ABIN7599692). Tested in ELISA, WB 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:	ROBO4
Alternative Name:	ROBO4 (ROBO4 Products)
Background:	Synonyms: Integrin alpha-L,CD11 antigen-like family member A,Leukocyte adhesion glycoprotein LFA-1 alpha chain,LFA-1A,Leukocyte function-associated molecule 1 alpha chain,CD11a,ITGAL,CD11A, Tissue Specificity: Leukocytes. Background: Roundabout homolog 4 is a protein that in humans is encoded by the ROBO4 gene. Predicted to enable cell-cell adhesion mediator activity. Involved in angiogenesis and establishment of endothelial barrier. Located in extracellular exosome. Implicated in aortic valve disease 3.
Molecular Weight:	107 kDa
Gene ID:	54538

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat ELISA, 0.1-0.5 µg/mL, - 1. Bedell, V. M., Yeo, S.-Y., Park, K. W., Chung, J., Seth, P., Shivalingappa, V., Zhao, J., Obara, T., Sukhatme, V. P., Drummond, I. A., Li, D. Y., Ramchandran, R. roundabout4 is essential for angiogenesis in vivo. Proc. Nat. Acad. Sci. 102: 6373-6378, 2005. 2. Gould, R. A., Aziz, H., Woods, C. E., Seman-Senderos, M. A., Sparks, E., Preuss, C., Wunnemann, F., Bedja, D., Moats, C. R., McClymont, S. A., Rose, R., Sobreira, N., and 33 others. ROBO4 variants predispose individuals to bicuspid aortic valve and thoracic aortic aneurysm. Nature Genet. 51: 42-50, 2019. 3. Huminiecki, L., Gorn, M., Suchting, S., Poulsom, R., Bicknell, R. Magic roundabout is a new member of the roundabout receptor family that is endothelial specific and expressed at sites of active angiogenesis. Genomics 79: 547-552, 2002.
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.

Handling

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.