

Datasheet for ABIN7602396  
**anti-CD51 antibody (AA 732-970)**



[Go to Product page](#)

## Overview

|                      |                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µg                                                                                                   |
| Target:              | CD51 (ITGAV)                                                                                             |
| Binding Specificity: | AA 732-970                                                                                               |
| Reactivity:          | Human                                                                                                    |
| Host:                | Mouse                                                                                                    |
| Clonality:           | Monoclonal                                                                                               |
| Conjugate:           | This CD51 antibody is un-conjugated                                                                      |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC),<br>Immunofluorescence (IF) |

## Product Details

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:                    | Anti-Integrin alpha V/ITGAV Antibody Picoband® (monoclonal, 8B10H2)                                                                                                                                                                                                                                                                                                                                                                                          |
| Immunogen:                  | E.coli-derived human Integrin alpha V/ITGAV recombinant protein (Position: H732-D970).                                                                                                                                                                                                                                                                                                                                                                       |
| Clone:                      | 8B10H2                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Isotype:                    | IgG2b                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Characteristics:            | <p>Anti-Integrin alpha V/ITGAV Antibody Picoband® (monoclonal, 8B10H2) (ABIN7602396).</p> <p>Tested in IF, IHC, ICC, 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.</p> |

## Product Details

Purification: Immunogen affinity purified.

## Target Details

Target: CD51 (ITGAV)

Alternative Name: ITGAV ([ITGAV Products](#))

Background: Synonyms: Lysosomal alpha-glucosidase,3.2.1.20  
Tissue Specificity: Expressed on platelets and leukocytes and is primarily concentrated at the borders between endothelial cells. Expressed in human umbilical vein endothelial cells (HUVECs) (at protein level). Expressed on neutrophils (at protein level). Isoform Long predominates in all tissues examined. Isoform Delta12 is detected only in trachea. Isoform Delta14-15 is only detected in lung. Isoform Delta14 is detected in all tissues examined with the strongest expression in heart. Isoform Delta15 is expressed in brain, testis, ovary, cell surface of platelets, human umbilical vein endothelial cells (HUVECs), Jurkat T-cell leukemia, human erythroleukemia (HEL) and U-937 histiocytic lymphoma cell lines (at protein level).  
Background: Integrin alpha-V is a protein that in humans is encoded by the ITGAV gene. It is a member of the beta 3 integrin subfamily(cytoadhesins). The human locus for the av gene(VNRA) was previously mapped to the long arm of chromosome 2. Sims et al.(2000) localized the VNRA gene to 2q31. The gene contains 30 exons and spans over 93 kb of genomic DNA. It functions as a receptor for a group of proteins that includes vitronectin, fibrinogen, thrombospondin, and von Willebrand factor.

Molecular Weight: 130 kDa

Gene ID: 3685

UniProt: [P06756](#)

Pathways: [Cell-Cell Junction Organization](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Growth Factor Binding](#), [Integrin Complex](#)

## Application Details

Application Notes: Western blot, 0.25-0.5 µg/mL, Human  
Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human  
Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human  
1. Sosnoski DM, Emanuel BS, Hawkins AL, van Tuinen P, Ledbetter DH, Nussbaum RL, Kaos FT, Schwartz E, Phillips D, Bennett JS, et al. (Aug 1988). "Chromosomal localization of the genes for the vitronectin and fibronectin receptors alpha subunits and for platelet glycoproteins IIb and

Application Details

Illa". J Clin Invest 81 (6): 1993-8. 2. Fernandez-Ruiz, E., de Villena, F. P.-M., Rodriguez de Cordoba, S., Sanchez-Madrid, F.Regional localization of the human vitronectin receptor alpha-subunit gene (VNRA) to chromosome 2q31-q32.Cytogenet. Cell Genet.62: 26-28, 1993.

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 and 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.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |