

## Datasheet for ABIN1106449 **anti-CD51 antibody**



[Go to Product page](#)

### Overview

|              |                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:    | 0.1 mg                                                                                                                                                        |
| Target:      | CD51 (ITGAV)                                                                                                                                                  |
| Reactivity:  | Human                                                                                                                                                         |
| Host:        | Mouse                                                                                                                                                         |
| Clonality:   | Monoclonal                                                                                                                                                    |
| Conjugate:   | This CD51 antibody is un-conjugated                                                                                                                           |
| Application: | Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)),<br>Immunofluorescence (IF), Enzyme Immunoassay (EIA), Functional Studies (Func) |

### Product Details

|                             |                                    |
|-----------------------------|------------------------------------|
| Immunogen:                  | Human melanoma cells.              |
| Clone:                      | NKI-M9 (former PAF2a)              |
| Isotype:                    | IgG2a                              |
| Cross-Reactivity (Details): | Species reactivity (tested):Human. |
| Purification:               | Ion Exchange Chromatography        |

### Target Details

|                   |                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------|
| Target:           | CD51 (ITGAV)                                                                                                    |
| Alternative Name: | CD51 / ITGAV ( <a href="#">ITGAV Products</a> )                                                                 |
| Background:       | CD51 (Cluster of Differentiation 51), known as vitronectin receptor $\alpha$ chain, or integrin $\alpha$ V is a |

## Target Details

type I integral membrane glycoprotein. CD51 forms a heterodimer with integrin  $\beta$ 1 (CD29),  $\beta$ 3 (CD61),  $\beta$ 5,  $\beta$ 6, or  $\beta$ 8. CD51 contains two disulfide-linked subunits of 125 kD and 24 kD. Many extracellular matrix proteins with RGD-motifs are CD51 ligands. In association with its  $\beta$  chains, CD51 binds vitronectin, von Willebrand factor, fibronectin, thrombospondin, osteopontin, fibrinogen, and laminin. CD51, as an adhesion molecule, plays important roles in leukocytes homing and rolling, mediates bone absorption and angiogenesis. CD51 is expressed on endothelial cells, fibroblasts, macrophages, platelets, osteoclasts, neuroblastoma, melanoma, and hepatoma cells. Synonyms: Integrin alpha-V, MSK8, VNRA, Vitronectin receptor subunit alpha

|           |                                                                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID:  | 9606                                                                                                                                                                                        |
| UniProt:  | <a href="#">P06756</a>                                                                                                                                                                      |
| Pathways: | <a href="#">Cell-Cell Junction Organization</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">Growth Factor Binding</a> , <a href="#">Integrin Complex</a> |

## Application Details

|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions:      | For Research Use only                                              |

## Handling

|                    |                                                                                                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                             |
| Concentration:     | 0.2 mg/mL                                                                                                                          |
| Buffer:            | PBS, 0.09 % Sodium Azide                                                                                                           |
| Preservative:      | Thimerosal (Merthiolate)                                                                                                           |
| Precaution of Use: | This product contains thimerosal (merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C                                                                                                                               |
| Storage Comment:   | Store the antibody undiluted at 2-8 °C.                                                                                            |