

## Rabbit anti-Human Integrin alpha 2 (ITGA2/CD49b) Monoclonal Antibody | anti-ITGA2 antibody

[KO Validated] Integrin alpha 2 (ITGA2/CD49b) Rabbit mAb

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                              |
|-----------|--------|------------|-------------------------------------------|
| AAA28479  | Rabbit | Human      | Western Blot, Immunohistochemistry, ELISA |

### PRODUCT SYNONYMS

Integrin alpha 2 (ITGA2/CD49b); Monoclonal Antibody; [KO Validated] Integrin alpha 2 (ITGA2/CD49b) Rabbit mAb; BR; GPIa; CD49B; HPA-5; VLA-2; VLAA2; b); anti-ITGA2 antibody

### PRODUCT SPECIFICATIONS

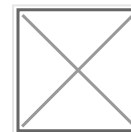
|                                                 |                                                                                                                                                                                 |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                          |
| Reactivity                                      | Human                                                                                                                                                                           |
| Clonality                                       | Monoclonal                                                                                                                                                                      |
| Isotype                                         | IgG                                                                                                                                                                             |
| Purity/Purification                             | Affinity purification                                                                                                                                                           |
| Form/Format                                     | PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.                                                                                                                    |
| Sequence                                        | GTFASSTFQT VQLTAAAEIN TYNPEIYVIE DNTVTIPLMI MKPDEKAEVP TGVIIGSIIA GILLLLALVA ILWKLGF FKR KYEKM TKNPD EIDETTELSS                                                                 |
| Applicable Applications for anti-ITGA2 antibody | WB (Western Blot), IHC (Immunohistochemistry), ELISA                                                                                                                            |
| Application Notes                               | WB: 1:1000-1:6000<br>IHC-P: 1:200-1:800<br>ELISA: Recommended starting concentration is 1ug/mL.<br>Please optimize the concentration based on your specific assay requirements. |
| Cross Reactivity                                | Human, Mouse, Rat                                                                                                                                                               |
| Immunogen                                       | A synthetic peptide corresponding to a sequence within amino acids 1082-1181 of human Integrin alpha 2 (ITGA2/CD49b)(P17301).                                                   |
| Preparation and Storage                         | Store at -20 degree C. Avoid freeze/thaw cycles.                                                                                                                                |

### IMAGES



#### IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using [KO Validated] Integrin alpha 2 (ITGA2/CD49b) Rabbit mAb (AAA28479) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



#### IHC (Immunohistochemistry)

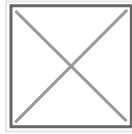
Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using [KO Validated] Integrin alpha 2 (ITGA2/CD49b) Rabbit mAb (AAA28479) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

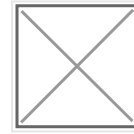
Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using [KO Validated] Integrin alpha 2 (ITGA2/CD49b) Rabbit mAb (AAA28479) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using [KO Validated] Integrin alpha 2 (ITGA2/CD49b) Rabbit mAb (AAA28479) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded Human breast tissue using [KO Validated] Integrin alpha 2 (ITGA2/CD49b) Rabbit mAb (AAA28479) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KO Validated] Integrin alpha 2 (ITGA2/CD49b) Rabbit mAb (AAA28479) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

## ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-ITGA2 antibody</b> | This gene encodes the alpha subunit of a transmembrane receptor for collagens and related proteins. The encoded protein forms a heterodimer with a beta subunit and mediates the adhesion of platelets and other cell types to the extracellular matrix. Loss of the encoded protein is associated with bleeding disorder platelet-type 9. Antibodies against this protein are found in several immune disorders, including neonatal alloimmune thrombocytopenia. This gene is located adjacent to a related alpha subunit gene. Alternative splicing results in multiple transcript variants. |
| <b>Product Categories/Family for anti-ITGA2 antibody</b>   | <a href="#">Cancer</a> ; <a href="#">Signal Transduction</a> ; <a href="#">PI3K-Akt Signaling Pathway</a> ; <a href="#">MAPK-Erk Signaling Pathway</a> ; <a href="#">Cell Biology</a> <a href="#">Developmental Biology</a> ; <a href="#">Cell Adhesion</a> ; <a href="#">Cytoskeleton</a> ; <a href="#">Endocrine Metabolism</a> ; <a href="#">Immunology Inflammation</a> ; <a href="#">CDs</a> ; <a href="#">Antibodies</a>                                                                                                                                                                 |

## NCBI AND UNIPROT INFORMATION

|                                   |                                                 |
|-----------------------------------|-------------------------------------------------|
| <b>NCBI GI #</b>                  | <a href="#">116295258</a>                       |
| <b>NCBI GeneID</b>                | <a href="#">3673</a>                            |
| <b>NCBI Accession #</b>           | <a href="#">NP_002194.2</a>                     |
| <b>NCBI GenBank Nucleotide #</b>  | <a href="#">NM_002203.3</a>                     |
| <b>UniProt Accession #</b>        | <a href="#">P17301</a> ; <a href="#">Q14595</a> |
| <b>Molecular Weight</b>           | Calculated MW: 129kDa<br>Observed MW: 150kDa    |
| <b>UniProt Protein Name</b>       | Integrin alpha-2                                |
| <b>UniProt Gene Name</b>          | <b>ITGA2</b>                                    |
| <b>UniProt Synonym Gene Names</b> | CD49B; GPIa                                     |
| <b>UniProt Entry Name</b>         | ITA2_HUMAN                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/integrin-alpha-2-itga2-cd49b-antibody-western-blot-immunohistochemistry-elisa/28479>