

**Anti-Integrin Alpha 1 Antibody**  
Catalog # ABO10532

**Specification**

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**Anti-Integrin Alpha 1 Antibody - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">P56199</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Integrin alpha-1(ITGA1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Integrin Alpha 1 Antibody - Additional Information**

**Gene ID** 3672

**Other Names**

Integrin alpha-1, CD49 antigen-like family member A, Laminin and collagen receptor, VLA-1, CD49a, ITGA1

**Calculated MW**

130848 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

Membrane; Single-pass type I membrane protein.

**Protein Name**

Integrin alpha-1

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Integrin alpha 1(1121-1134aa SNQKRELAIQISKD), different from the related mouse and rat sequences by one amino acid.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the integrin alpha chain family.

**Anti-Integrin Alpha 1 Antibody - Protein Information**

**Name** ITGA1

**Function**

Integrin alpha-1/beta-1 is a receptor for laminin and collagen. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. Involved in anchorage-dependent, negative regulation of EGF-stimulated cell growth.

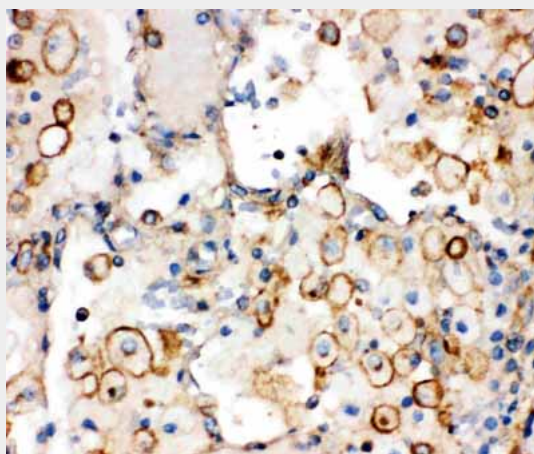
**Cellular Location**

Membrane; Single-pass type I membrane protein.

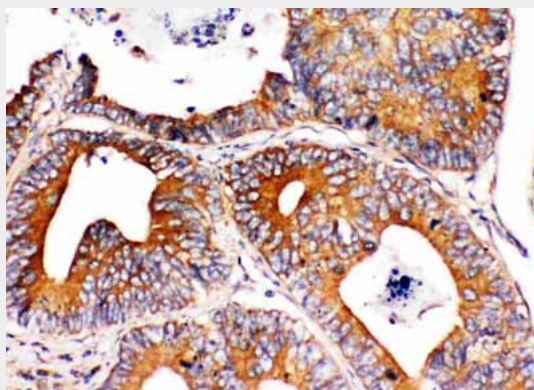
**Anti-Integrin Alpha 1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

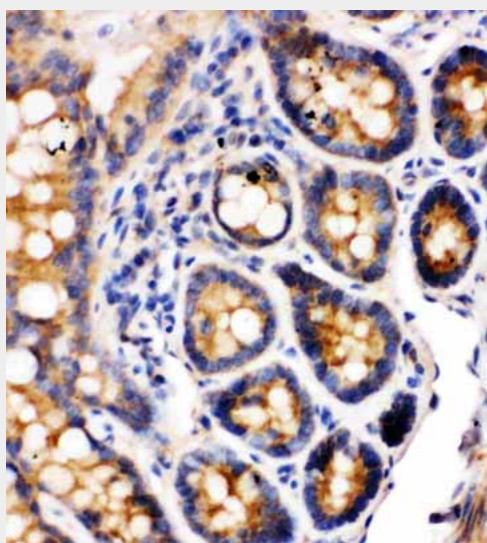
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Integrin Alpha 1 Antibody - Images**

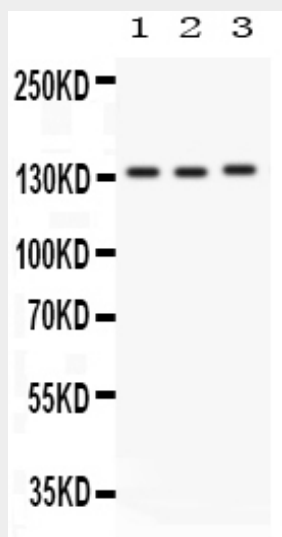
Anti-Integrin alpha 1 antibody, ABO10532, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti-Integrin alpha 1 antibody, ABO10532, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti-Integrin alpha 1 antibody, ABO10532, IHC(P)IHC(P): Rat Intestine Tissue



Anti-Integrin alpha 1 antibody, ABO10532, Western blotting All lanes: Anti ITGA1 (ABO10532) at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: SW620 Whole Cell Lysate at 40ug Predicted bind size: 131KD Observed bind size: 131KD

### Anti-Integrin Alpha 1 Antibody - Background

Integrin alpha 1 (ITGA1) chain associates with the beta 1 (ITGB1) chain to form a heterodimer that functions as a dual laminin/collagen receptor in neural cells and hematopoietic cells. ITGA1 has a 206-amino acid I domain in its N-terminal half, followed by 3 divalent cation-binding sites and a C-terminal transmembrane domain with a short cytoplasmic tail. It also has 28 potential N-glycosylation sites. Human ITGA1 was expressed in a mouse fibroblast cell line as a 180-kD protein. ITGA1 is involved in the early remodeling of osteoarthritic cartilage and plays an essential role in the regulation of mesenchymal stem cell proliferation and cartilage production. It also plays an essential role in the regulation of MSC proliferation and cartilage production.