

Anti-Integrin Alpha 1 Antibody

Catalog # ABO10532

Product Information

Application	WB, IHC-P
Primary Accession	P56199
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Source	Eukaryota
Protein Name	Integrin alpha-1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
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

Sequence Similarities

freezing and thawing.
Belongs to the integrin alpha chain family.

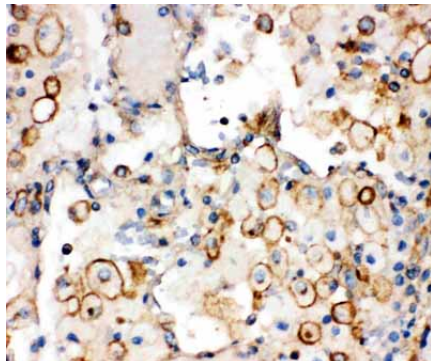
Protein Information

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.

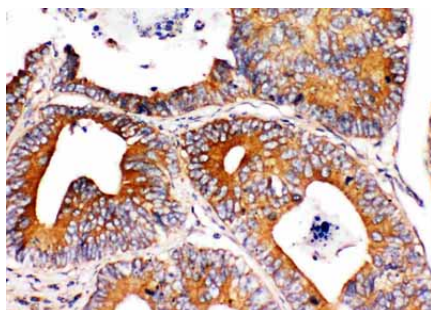
Background

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.

Images

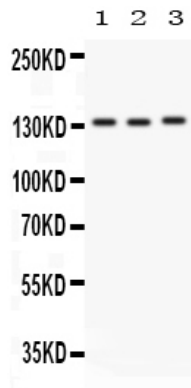
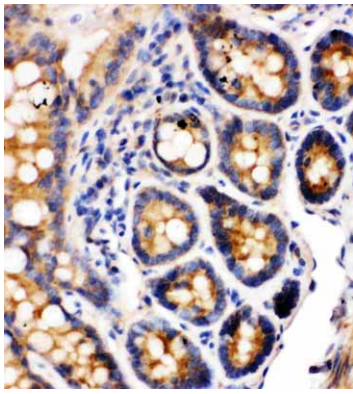


Anti-Integrin alpha 1 antibody, ABO10532, IHC(P)IHC(P):
Human Lung Cancer Tissue



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.