

Anti-Integrin Alpha 3 Antibody

Catalog # ABO10934

Product Information

Application	WB, IHC-P
Primary Accession	P26006
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Integrin alpha-3(ITGA3) 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	3675
Other Names	Integrin alpha-3, CD49 antigen-like family member C, FRP-2, Galactoprotein B3, GAPB3, VLA-3 subunit alpha, CD49c, Integrin alpha-3 heavy chain, Integrin alpha-3 light chain, ITGA3, MSK18
Calculated MW	116612
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	Cell membrane ; Single-pass type I membrane protein . Cell membrane ; Lipid-anchor . Cell projection, invadopodium membrane ; Single-pass type I membrane protein . Cell projection, filopodium membrane ; Single-pass type I membrane protein . Enriched preferentially at invadopodia, cell membrane protrusions that correspond to sites of cell invasion, in a collagen-dependent manner. .
Tissue Specificity	Isoform 1 is widely expressed. Isoform 2 is expressed in brain and heart. In brain, both isoforms are exclusively expressed on vascular smooth muscle cells, whereas in heart isoform 1 is strongly expressed on vascular smooth muscle cells, isoform 2 is detected only on endothelial vein cells. .
Source	Eukaryota
Protein Name	Integrin alpha-3
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 N-terminus of human Integrin alpha 3(51-67aa LFGYSVALHRQTERQQR), identical to the related rat and mouse sequences.
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.

Protein Information

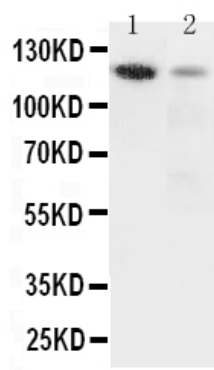
Name	ITGA3
Synonyms	MSK18
Function	Integrin alpha-3/beta-1 is a receptor for fibronectin, laminin, collagen, epiligrin, thrombospondin and CSPG4. Integrin alpha- 3/beta-1 provides a docking site for FAP (seprase) at invadopodia plasma membranes in a collagen-dependent manner and hence may participate in the adhesion, formation of invadopodia and matrix degradation processes, promoting cell invasion. Alpha-3/beta-1 may mediate with LGALS3 the stimulation by CSPG4 of endothelial cells migration.
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell membrane; Lipid-anchor. Cell projection, invadopodium membrane; Single-pass type I membrane protein. Cell projection, filopodium membrane; Single-pass type I membrane protein. Note=Enriched preferentially at invadopodia, cell membrane protrusions that correspond to sites of cell invasion, in a collagen-dependent manner.
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Background

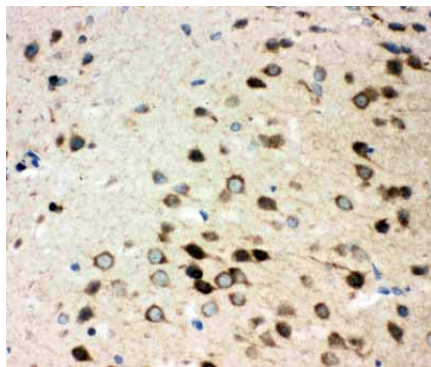
ITGA3(INTEGRIN, ALPHA-3), also called CD49C, VLA3 or GAPB3, is a protein that in humans is encoded by the ITGA3 gene. ITGA3 is an integrin alpha subunit which is also a member of the family of cell surface adhesion molecules. ITGA3 is mapped to chromosome 17 and its exact cytogenetic location is 17q21.33. ITGA3 makes up half of the alpha3beta1 integrin duplex that plays a role in neural migration and corticogenesis together with beta-1 subunit. A functional link between DAB1 phosphorylation and ITGA3 signaling drives the timely detachment of migrating neurons from radial glial fibers. Expression of human ITGA3 increased the infectivity of virus for Chinese hamster ovary cells. ITGA3 also contains 13 potential N-glycosylation sites, 2 potential cleavage sites, and the 7 N-terminal repeating units characteristic of ITGAs. Recombinant ITGA3 is expressed as a 150-kD protein as the same size as the native protein by the western blot analysis.

Images

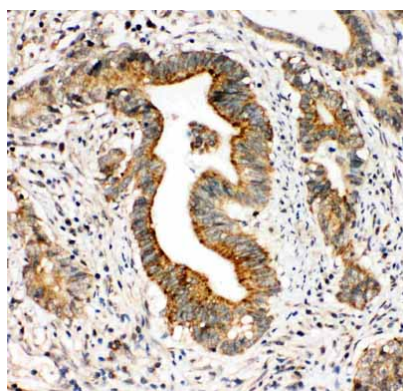
Anti-Integrin alpha 3 antibody, ABO10934, Western blotting
Lane 1: Rat Heart Tissue Lysate
Lane 2: HELA Cell



Lysate



Anti-Integrin alpha 3 antibody, ABO10934, IHC(P)IHC(P):
Rat Brain Tissue



Anti-Integrin alpha 3 antibody, ABO10934, IHC(P)IHC(P):
Human Intestinal Cancer Tissue

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