abcam

ab269295

PE Anti-Integrin alpha 3 antibody [ASC-1]

Anti-Integrin alpha 3 antibody [ASC-1] conjugated to PE - suitable for flow cytometry, and reacts with human samples. Clone [ASC-1] is a mouse monoclonal antibody cited in 12 publications.

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Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 7.4 Preservative: 0.1% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing ITGA3 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P26006
Clone number	ASC-1
Purification technique	Size-exclusion chromatography
Specificity	ab269295 recognizes an extracellular epitope of CD49c.
Light chain type	kappa
Purification notes	The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	10 µL for 10^6 Cells
Notes	Or 100 µL of whole blood.

Target data

See full target information ITGA3

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. (Microbial infection) Integrin ITGA3:ITGB1 may act as a receptor for R.delemar CotH7 in alveolar epithelial cells, which may be an early step in pulmonary mucormycosis disease progression.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Store in the dark

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Integrin alpha 3 also known as ITGA3 or alpha 3 is a protein that plays an important role in cell adhesion and signaling. It forms complexes with other integrins to mediate interactions between cells and the extracellular matrix. Integrin alpha 3 is a type I transmembrane protein with a molecular weight of approximately 120 kDa. This protein is primarily expressed in epithelial tissues including the skin kidneys and respiratory tract.
Biological function summary	Integrin alpha 3 functions as a cell surface receptor that helps regulate cell migration proliferation and differentiation. It is a part of the alpha-3-beta-1

	integrin complex which interacts with extracellular proteins like laminin-5 and collagen. This interaction facilitates the transmission of signals from the outside to the inside of the cell affecting various cellular responses and activities.
Pathways	Integrin alpha 3 plays a significant role in the cell signaling and communication pathways. It is involved in the pathways like focal adhesion and MAPK signaling. In these pathways integrin alpha 3 interacts with other proteins such as paxillin and FAK (focal adhesion kinase) which are critical for the downstream signaling that regulates cell shape and movement.
Associated diseases and disorders	Integrin alpha 3 is linked to conditions like skin blistering diseases and cancers particularly those affecting the epithelial tissues. Alterations in integrin alpha 3 expression or function can disturb cell adhesion leading to diseases like epidermolysis bullosa. Additionally in cancer integrin alpha 3 often collaborates with proteins like MMP-9 to promote tumor invasion and metastasis.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

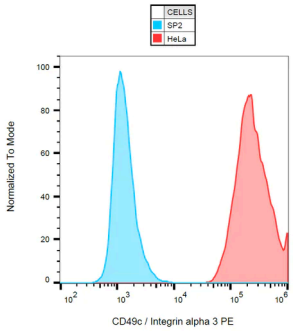
We do not recommend this combination. It is not covered by our product promise.

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1 product image



Flow Cytometry - PE Anti-Integrin alpha 3 antibody [ASC-1] (ab269295)

Integrin alpha 3 Flow Cytometry staining using mouse Anti-Integrin alpha 3 antibody

Flow cytometry analysis (surface staining) of HeLa cells labeling CD49c with ab269295.

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