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DATA SHEET

Rabbit Anti-CD49a/ITGA1 Polyclonal: RC0039

Intended Use: For Research Use Only

Description: Integrins are heterodimeric cell surface receptors composed of noncovalently associated transmembrane α and β subunits that play a pivotal role in cell adhesion and migration, as well as in growth and survival. Integrins not only transmit signals to cells in response to the extracellular environment (outside-in signaling), but also sense intracellular cues to alter their interaction with the extracellular environment (inside-out signaling). Integrin α1 (CD49a, VLA-1, ITGA1) pairs with integrin β1 to form an α1β1 dimer on the cell surface. This integrin dimer plays important roles in colorectal cancer and pancreatic cancer cell proliferation, migration, and metastasis. The cytoplasmic tail of integrin α1 activates ERK and FAK/Src signaling to promote these biological processes. In immune systems, integrin α1 expression defines a tissue-resident cytotoxic T cell population contributing to both cancer immunity and vitiligo, an autoimmune disease.

Specifications

Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Synthetic peptide from human protein aa 920-980
Localization:	Membrane
Formulation:	Affinity purified antibody in PBS pH 7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

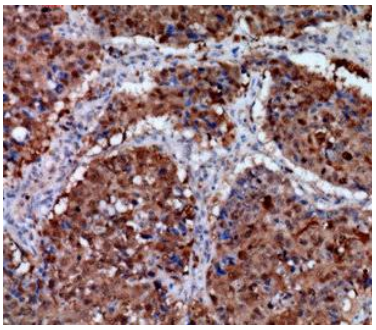
Package:

Description	Catalog No.	Size
CD49a/ITGA1 Polyclonal Concentrated	RC0039	1 ml

IHC Procedure*

Positive Control Tissue:	Prostate, placenta , stomach
Concentrated Dilution:	10-100
Pretreatment:	Tris EDTA pH 9.0, 15 min Pressure Cooker or 30-60 min water bath at 95°-99°C
Incubation Time and Temp:	Overnight @ 4°C
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human lung cancer stained with anti-CD49a using DAB

References:

1. Human papillomavirus type 38 alters wild-type p53 activity to promote cell proliferation via the downregulation of integrin alpha 1 expression. Romero-Medina MC, et al. PLoS Pathog 16:e1008792, 2020.
2. The reduction in CD8+PD-1+ T cells in liver histological tissue is related to Pegylated IFN-a therapy outcomes in chronic hepatitis B patients. Liu R, et al. BMC Infect Dis 20:590, 2020.

Orders: customercare@medaysis.com Support: techsupport@medaysis.com Tel: 510-509-3153 www.medaysis.com

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