

Mouse Anti-CD49D/Integrin $\alpha 4$ [A7]: MC0037, MC0037RTU7

Intended Use: For Research Use Only

Description: Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain that function in cell surface adhesion and signaling. Most integrin receptors bind ligands that are components of the extracellular matrix, including fibronectin, collagen and vitronectin. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 4 subunit. This subunit associates with a beta 1 or beta 7 subunit to form an integrin that may play a role in cell motility and migration. This integrin is a therapeutic target for the treatment of multiple sclerosis, Crohn's disease and inflammatory bowel disease. Alternative splicing results in multiple transcript variants.

Specifications

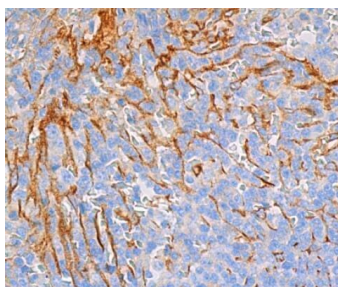
Clone: A7
 Source: Mouse
 Isotype: IgG2b/k
 Reactivity: Human
 Immunogen: Human CD49D protein C-terminus aa 796-1005
 Localization: Membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, ICC/IF, IP, WB
 Package:

Description	Catalog No.	Size
CD49D/Integrin $\alpha 4$ [A7] Concentrated	MC0037	1 ml
CD49D/Integrin $\alpha 4$ [A7] Prediluted	MC0037RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Lung, lymph node, spleen
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human spleen stained with anti-CD49D using DAB

References

1. AGT haplotype in ITGA4 gene is related to antibody-mediated rejection in heart transplant patients. Lucía Núñez, et al. PLoS One. Jul 23;14(7):e0219345, 2019.
2. Radiogenomics Profiling for Glioblastoma-related Immune Cells Reveals CD49d Expression Correlation with MRI parameters and Prognosis. Cho, HR. et al. Sci Rep. 8: 16022, 2018.
3. Overexpression of progelatinase B/proMMP-9 affects migration regulatory pathways and impairs chronic lymphocytic leukemia cell homing to bone marrow and spleen. Bailón, E. et al. Journal of leukocyte biology. 96: 185-99, 2014.