

Mouse Anti-CD29 (Integrin Beta-1 Subunit) [4B7R]: MC0588, MC0588RTU7

Intended Use: For Research Use Only

Description: Integrins play an important role in cell adhesion and migration, and their normal function is critical in the induction and maintenance of cell differentiation. This antibody reacts with CD29, the 130 kD integrin β 1 subunit. CD29 is ubiquitous, with broad tissue distribution, but is not expressed on erythrocytes and is expressed only weakly on granulocytes. Loss or down-regulation of CD29 has been proposed to be one of the general pathways through which carcinoma cells may acquire a more invasive and differentiated phenotype.

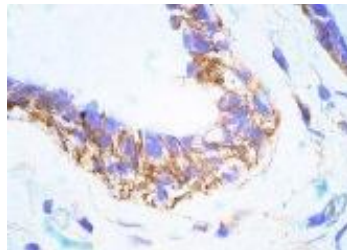
Specifications

Clone: 4B7R
Source: Mouse
Reactivity: Human
Isotype: IgG1/k
Localization: Membrane
Formulation: Antibody in PBS, 0.1% gelatin, < 0.1% sodium azide (NaN₃)
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
Applications: IHC; Fow Cyt., ICC/IF, WB
Package:

Description	Catalog No.	Size
CD29 (Integrin Beta-1 Subunit) Concentrated	MC0588	1 ml
CD29 (Integrin Beta-1 Subunit) Prediluted	MC0588RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Tonsil
Concentrated Dilution: 50-250
Pretreatment: Citrate pH 6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using 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.



Human breast carcinoma FFPE tissue stained with anti-CD29 using DAB

References:

1. A quantitative comparison of human HT-1080 fibrosarcoma cells and primary human dermal fibroblasts identifies a 3D migration mechanism with properties unique to the transformed phenotype. Schwartz MP et al. PLoS One 8:e81689, 2013.
2. Human mid-trimester amniotic fluid stem cells cultured under embryonic stem cell conditions with Valproic acid acquire pluripotent characteristics. Moschidou D, et al. Stem Cells Dev, 2012.
3. Loss-of-function FERMT1 mutations in kindler syndrome implicate a role for fermitin family homolog-1 in integrin activation. Lai-Cheong JE et al. Am J Pathol 175:1431-41, 2009.
4. Increased inorganic phosphate induces human endothelial cell apoptosis in vitro. Di Marco GS et al. Am J Physiol Renal Physiol, 2008.