



Anti-Integrin α 2b Antibody (Clone M148)

Alternative Names: CD41, Alpha 2 Subunit Of VLA-2 Receptor

Catalogue Number: AX17-10019-50ug

Size: 50 μ g

Background Information

Integrins are heterodimeric cell surface receptors composed of alpha and beta subunits, which mediate cell-cell and cell-extracellular matrix attachments. Integrin alpha 2b (CD41) and integrin beta3 (CD61) associate to form the heterodimer integrin α 2b β 3, a fibronectin receptor expressed in platelets. Activation of α 2 β 3 leads to platelet to platelet interaction through the binding of soluble fibrinogen, which in turn leads to rapid platelet aggregation which can physically block holes in an endothelial cell surface.

M148 binds to some medulloblastoma and neuroblastoma cells and rhabdomyosarcoma and some other solid tumours. It does not bind to marrow constituents other than platelets and megakaryocytes. Abnormal integrin expression has been shown in many epithelial tumours and is important for the growth and metastatic capacity of melanoma cells. M148 prevents aggregation of platelets and therefore is expected to block the binding of Integrin alpha 2b (CD41) and integrin beta3 (CD61).

Product Information

Antibody Type:	Monoclonal	Host:	Mouse
Isotype:	IgG1	Species Reactivity:	Human
Immunogen:	Homogenized human medulloblastoma tissue		
Format:	50 μ g in 50 μ l PBS containing 0.02% sodium azide.		
Storage Conditions:	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
Applications:	FACS IHC IF IP Functional studies		

Additional Information

Subcellular location:	Plasma membrane	MW:	113kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	3674	Uniprot ID:	P08514



References

Alonso-Orgaz et al. 2014. J Proteomics. 109:368-81. PMID: 25065646. ; Cloutier et al. 2013. EMBO Mol Med. 5(2):235-49. PMID: 23165896. ; Boilard et al. 2011. J Immunol. 186(7):4361-6. PMID: 21357261. ; Jones et al. 1984. Br J Haematol. 57(4):621-31. PMID: 6234927.