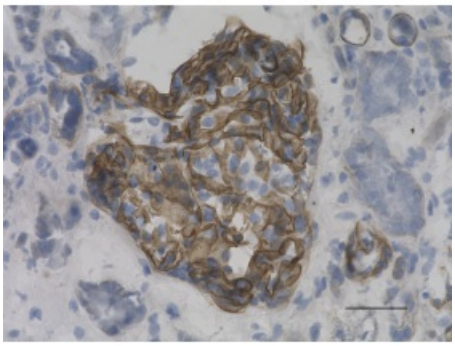
SONY

Product Data Sheet

Purified anti-CD49C (Integrin α3)

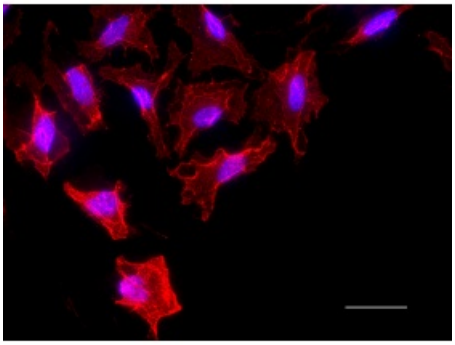
Catalog # / Size:	4926010 / 100 µg 4926005 / 25 µg
Clone:	P1B5
Isotype:	Mouse IgG1, κ
Immunogen:	The P1B5 monoclonal antibody was generated against human HT1080 cells.
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5 mg/ml



IHC staining of purified anti-CD49C (Integrin α3) antibody (clone P1B5) on frozen human kidney tissue. The tissue was incubated with 1 µg/ml of the primary antibody for 60 minutes at room temperature. Ultra-Streptavidin (USA) HRP kit (Multi-Species, DAB) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm

Applications:

Applications:	Flow Cytometry, Immunohistochemistry, Other
Recommended Usage:	Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 1.0 - 5.0 µg/ml is suggested. For flow cytometric staining, the suggested use of this reagent is between 1.0 - 10 µg per million cells in 100 µl volume. For immunocytochemistry, a concentration range of 1.0 - 5.0 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	This antibody recognizes the α3 subunit.



ICC staining of purified anti-CD49C (Integrin α3) antibody (clone P1B5) on HeLa cells. The cells were fixed with 4% PFA, permeabilized with a buffer containing 0.1% Triton X-100 and 0.25% BSA, and blocked with 2% normal goat serum and 0.02% BSA. The cells

Application References:

1. Wayner EA and Hoffstrom BG. 2007. *Methods. Enzymol.* 426:117.
2. Wayner EA, *et al.* 1993. *J Cell Biol.* 121:1141. (IP)
3. Carter WG, *et al.* 1990. *J Cell Biol.* 110:1387-404 (IP)
4. Wayner EA and Carter WG. 1987. *J Cell Biol.* 105:1873. (IP)

Description: CD49c is a 150 kD α integrin chain known as α3 integrin or VLA-3 α chain. It is a type I transmembrane glycoprotein which is proteolytically cleaved into two disulfide linked fragments of 125 kD and 30 kD. CD49c forms a heterodimer with integrin β1 (α3β1, CD49c/CD29, VLA-3) and is expressed by many types of adhesion cells, such as endothelial cells, epithelial cells, and dermal fibroblasts. Weak expression has been reported on leukocytes. VLA-3 plays a role in cell-cell and cell-matrix adhesion through binding Kalinin, collagen, laminin-1, laminin-5, entactin, and fibronectin.

Antigen References:

1. Fitzgerald, K., *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.
2. Hirano T. 1998. *Int. Rev. Immunol.* 16:249.
3. Patterson P. 1992. *Curr. Opin. Neurobiol.* 2:94.
4. van Oers M, *et al.* 1993. *Ann. Hematol.* 66:219.