

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin α V β 5. Recognizes the human Integrin α V β 5 heterodimer and does not recognize the α V subunit in association with any other β subunits.
Source	Monoclonal Mouse IgG ₁ Clone # P5H9
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HT1080 human fibrosarcoma cell line
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

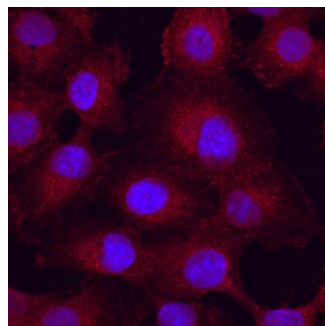
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	2.5 μ g/10 ⁶ cells	MCF-7 human breast cancer cell line
Immunocytochemistry	8-25 μ g/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Adhesion Blockade	Wayner, E.A. <i>et al.</i> (1991) J. Cell Biol. 113 :919.	
Immunoprecipitation	Wayner, E.A. <i>et al.</i> (1991) J. Cell Biol. 113 :919.	

DATA

Immunocytochemistry



Integrin α V β 5 in HT1080 Human Cell Line. Integrin α V β 5 was detected in immersion fixed HT1080 human fibrosarcoma cell line using Human Integrin α V β 5 Monoclonal Antibody (Catalog # MAB2528) at 10 μ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Integrins are heterodimeric receptors comprised of an α and a β subunit. Integrin α V (CD51) associates with several different β subunits, but Integrin β 5 associates exclusively with the α V subunit. Integrin α V β 5, also known as Integrin α V β S and Integrin α V β 3B, is a transmembrane heterodimeric protein that functions as a receptor for Vitronectin. It is expressed on hepatoma cells, fibroblasts and carcinoma cells.