

Human Integrin αV/CD51 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF1219

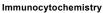
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Integrin αV/CD51 in Western blots. In Western blots, approximately 10% cross-reactivity with recombinant mouse (rm) Integrin αV is observed, 5% cross-reactivity with recombinant human (rh) Integrin α2 is observed, and less than 1% cross-reactivity with rhIntegrin α5 and rmIntegrin αE is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Integrin αV/CD51 Phe31-Val992 Accession # NP_002201	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.	

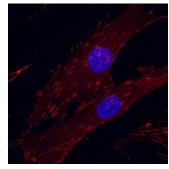
APPLICATIONS

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
Western Blot	0.1 μg/mL	Recombinant Human Integrin αV/CD51
Flow Cytometry	2.5 μg/10 ⁶ cells	Human peripheral blood mononuclear cells
Immunocytochemistry	5-15 μg/mL	See Below

DATA





Integrin αV/CD51 in Human Mesenchymal Stem Cells. Integrin αV/CD51 was detected in immersion fixed human mesenchymal stem cells using Goat Anti-Human Integrin αV/CD51 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF1219) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Streptavidin (red; Catalog # NL999) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and cell surface. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	

Stability & Storage Use a manua

PREPARATION AND STORAGE

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
 - 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

Integrin αV , also known as CD51 and vitronectin receptor subunit α , is a 140 - 150 kDa integrin alpha chain that forms dimers with at least five beta chains including $\beta 1$, 3, 5, 6, and 8. It is a 1018 amino acid (aa) residue type I membrane protein with a large (962 aa) extracellular domain (ECD) and a short (32 aa) cytoplasmic tail. The N-terminal region of αV , which is important for ligand binding, contains seven FG-GAP (phenylalanyl-glycyl and glycyl-alanyl-prolyl) concensus repeats that fold into a β -propellar domain. Furin cleavage of the αV ECD occurs after Gly 889, generating a disulfide-linked, heteromeric subunit αV chain. αV -containing integrins bind multiple ECM molecules, including vitronectin, osteopontin, MMP-2, and TSP. The ECD of human Integrin αV shares 92% aa sequence identity with mouse Integrin αV ECD.

Rev. 2/6/2018 Page 1 of 1

