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anti-Integrin beta 2 antibody

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Publications



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Target:

Quantity:	0.1 mg
Target:	Integrin beta 2 (ITGB2)
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Integrin beta 2 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC)
Product Details	
Immunogen:	Bovine leukocytes.
Clone:	IVA35
Isotype:	lgG1
Specificity:	The antibody IVA35 reacts with an extracellular epitope of CD18 antigen (bovine), a 90-95 kDa
	type I transmembrane protein (integrin) expressed on all leukocytes.
Cross-Reactivity (Details):	Bovine
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Target Details	

Integrin beta 2 (ITGB2)

Target Details			
Alternative Name:	CD18 (ITGB2 Products)		
Background:	Integrin subunit beta 2,CD18, integrin beta2 subunit, forms heterodimers with four types of		
	CD11 Molecule to constitute leukocyte (beta2) integrins: alphaLbeta2 (CD11a/CD18, LFA-1),		
	alphaMbeta2 (CD11b/CD18, Mac-1, CR3), alphaXbeta2 (CD11c/CD18) and alphaDbeta2		
	(CD11d/CD18). In most cases, the response mediated by the integrin is a composite of the		
	functions of its individual subunits. These integrins are essential for proper leukocyte migration,		
	mediating intercellular contacts. Absence of CD18 leads to leukocyte adhesion deficiency-1,		
	severe reduction of CD18 expression leads to the development of a psoriasiform skin disease.		
	CD18 is also a target of Mannheimia (Pasteurella) haemolytica leukotoxin and is sufficient to		
	mediate leukotoxin-mediated cytolysis.,Integrin beta2, Complement receptor C3 subunit beta,		
	ITGB2		
Gene ID:	281877		
UniProt:	P32592		
Pathways:	NF-kappaB Signaling, Activation of Innate immune Response, Toll-Like Receptors Cascades,		
	Activated T Cell Proliferation		
Application Details			
Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL.		
Restrictions:	For Research Use only		
Handling			
Concentration:	1 ma/mL		

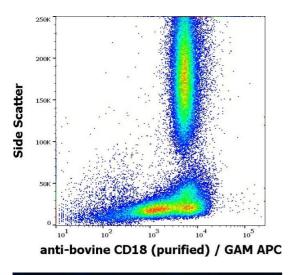
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Concentration:	1 mg/mL	
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Handling Advice:	Do not freeze.	
Storage:	4 °C	
Storage Comment:	Store at 2-8°C. Do not freeze.	

Product cited in:

Dusinský, Tomásková, Horovská, Simon: "Monoclonal antibodies specific for bovine CD18." in: **Folia biologica**, Vol. 47, Issue 3, pp. 108-10, (2001) (PubMed).

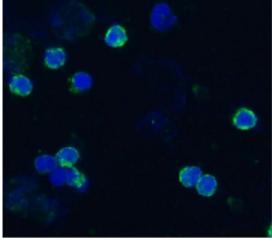
Naessens, Howard, Hopkins: "Nomenclature and characterization of leukocyte differentiation antigens in ruminants." in: **Immunology today**, Vol. 18, Issue 8, pp. 365-8, (1997) (PubMed).

Images



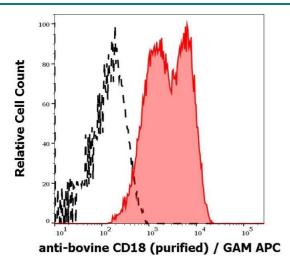
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of bovine peripheral whole blood stained using anti-bovine CD18 (IVA35) purified antibody (concentration in sample 10 μ g/mL) GAM APC.



Immunocytochemistry

Image 2. Immunocytochemistry staining of acetone/methanol fixed bovine peripheral blood (lymphocyte-enriched suspension) using anti-bovine CD18 (IVA35), secondary antibody conjugated to FITC (green), DNA stained with DAPI (blue).



Flow Cytometry

Image 3. Separation of bovine lymphocytes stained using anti-bovine CD18 (IVA35) purified antibody (concentration in sample 10 μ g/mL, GAM APC, red-filled) from bovine lymphocytes unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).