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Datasheet for ABIN94242 anti-CD9 antibody

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Overview

Quantity:	0.1 mg
Target:	CD9
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD9 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	Bovine thrombocytes.
Clone:	IVA50
Isotype:	lgG2
Specificity:	The antibody IVA50 reacts with an extracellular epitope of CD9 antigen (bovine), a 24 kDa single transmembrane polypeptide expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes. This antibody crossreacts with CD9 on human platelets.
Cross-Reactivity (Details):	Human, Bovine
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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Target Details

Target:	CD9
Alternative Name:	CD9 (CD9 Products)
Background:	CD9 Molecule,CD9 belongs to proteins of tetraspanin family that orchestrate cholesterol-
	associated tetraspanin-enriched signaling microdomains within the plasma membrane,
	forming complexes with each other as well as with integrins, membrane-anchored growth
	factors and other proteins. CD9 is involved in cell motility, osteoclastogenesis, neurite
	outgrowth, myotube formation, and sperm-egg fusion, plays roles in cell attachment and
	proliferation and is necessary for association of heterologous MHC II molecules on the
	dendritic cell plasma membrane which is important for effective T cell stimulation. CD9 is also
	considered as metastasis suppressor in solid tumors.,MIC3, MRP-1, BTCC-1, DRAP-27,
	TSPAN29
Gene ID:	280746
UniProt:	P30932
Pathways:	Response to Water Deprivation, Cell-Cell Junction Organization
Application Details	
Application Notes:	Western blotting: Recommended dilution: 1 µg/mL.
Restrictions:	For Research Use only
Handling	
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:

de Pontes, Altei, Galan, Bilić, Guillemin, Kuleš, Horvatić, Ribeiro, de Paula, Pereira, Lucheis, Mrljak, Eckersall, Ferreira, Dos Santos: "Extracellular vesicles in infectious diseases caused by protozoan parasites in buffaloes." in: **The journal of venomous animals and toxins including tropical diseases**, Vol. 26, pp. e20190067, (2020) (PubMed).

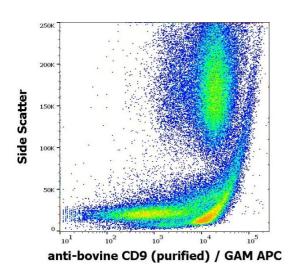
Tomásková, Dusinský, Horovská, Simon: "A set of monoclonal antibodies specific for bovine cell surface molecule CD9." in: **Folia biologica**, Vol. 45, Issue 5, pp. 225-6, (2000) (PubMed).

Mateo, Perez de la Lastra, Moreno, Dusinsky, Bilka, Simon, Horovska, Llanes: "Biochemical characterization of antigens detected with anti-platelet monoclonal antibodies." in: **Veterinary immunology and immunopathology**, Vol. 52, Issue 4, pp. 363-70, (1997) (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).

Sopp, Howard: "Investigation of PC36 (BoCD45R)." in: **Veterinary immunology and immunopathology**, Vol. 52, Issue 4, pp. 271-4, (1997) (PubMed).

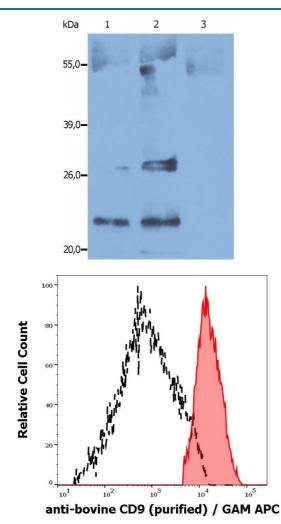
Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of bovine peripheral whole blood stained using anti-bovine CD9 (IVA50) purified antibody (concentration in sample 10μ g/mL) GAM APC.

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Immunoprecipitation

Image 2. Immunoprecipitation of human CD9 from the biotin-labeled human platelets lysates. Lane 1: immunoprecipitation with anti-CD9 (IVA50) Lane 2: immunoprecipitation with anti-human CD9 control antibody Lane 3: immunoprecipitation with negative control

Flow Cytometry

Image 3. Separation of bovine CD9 positive thrombocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of bovine peripheral whole blood stained using anti-bovine CD9 (IVA50) purified antibody (concentration in sample 10 μg/mL) GAM APC.

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