

Datasheet for ABIN94110
anti-CD41, CD61 antibody

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Overview

Quantity:	0.1 mg
Target:	CD41, CD61
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD41, CD61 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), ELISA, Immunocytochemistry (ICC)

Product Details

Immunogen:	Bovine trombocytes.
Clone:	IVA30
Isotype:	IgG2
Specificity:	The antibody IVA30 reacts with an extracellular epitope on CD41/CD61 complex (bovine), one of the earliest markers of the megakaryocytic lineage. CD41/CD61 complex acts as the receptor for fibrinogen, fibronectin, Von Willebrand factor, vitronectin, thrombin and mediates platelets aggregation. CD41/CD61 is expressed only by platelets and megakaryocytes, the complex may be absent or strongly reduced in Glanzmann's thrombasthenia (GT). This antibody crossreacts with human platelets.
Cross-Reactivity (Details):	Human, Bovine
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target: CD41, CD61

Abstract: [CD41, CD61 Products](#)

Background: CD41 (platelet glycoprotein IIb, integrin alpha IIb) is composed of two subunits (120 kDa transmembrane alpha chain and 23 kDa extracellular beta chain) and interacts with CD61 (platelet glycoprotein IIIa, integrin beta 3) in the presence of calcium to form a functional adhesive protein receptor. CD41/CD61 complex is one of the earliest markers of the megakaryocytic lineage. Upon blood vessel damage, this receptor binds to a variety of proteins including von Willebrand factor, fibrinogen, fibronectin and vitronectin, and it is involved in platelet aggregation.,platelet GPIIb, Integrin alpha-IIb, GPalpha IIb, GPIIb, GT, GP3A, platelet GPIIIa

Application Details

Application Notes: Flow cytometry: Recommended dilution: 1-4 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.

Publications

Product cited in: "Proceedings of the 3rd workshop on ruminant leukocyte antigens. Davis, California, 16 July 1995." in: **Veterinary immunology and immunopathology**, Vol. 52, Issue 4, pp. 213-468, (1997) ([PubMed](#)).

Mateo, Perez de la Lastra, Moreno, Dusinsky, Bilka, Simon, Horovska, Llanes: "Biochemical

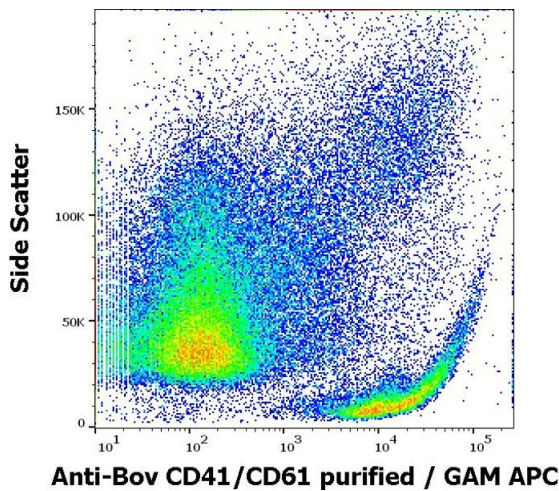
characterization of antigens detected with anti-platelet monoclonal antibodies." in: **Veterinary immunology and immunopathology**, Vol. 52, Issue 4, pp. 363-70, (1997) ([PubMed](#)).

Mateo, Pintado, Perez de la Lastra, Dusinsky, Simon, Naessens, Llanes: "Ruminant cluster CD41/CD61." in: **Veterinary immunology and immunopathology**, Vol. 52, Issue 4, pp. 251-3, (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](#)).

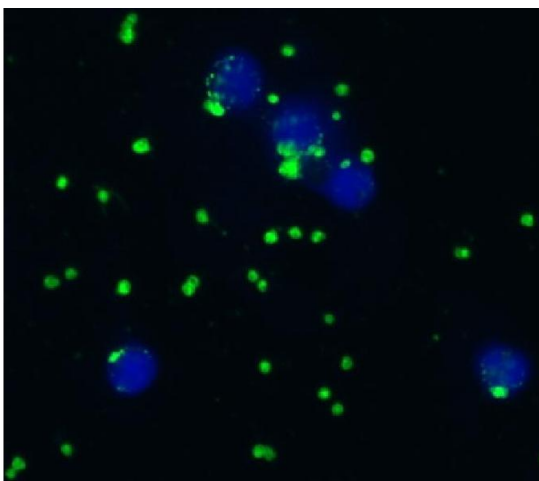
Simon, Dusinsky, Horovska, Bilka, Hluchy: "Immunohistochemical reactivity of anti-platelet monoclonal antibodies." in: **Veterinary immunology and immunopathology**, Vol. 52, Issue 4, pp. 377-82, (1997) ([PubMed](#)).

Images



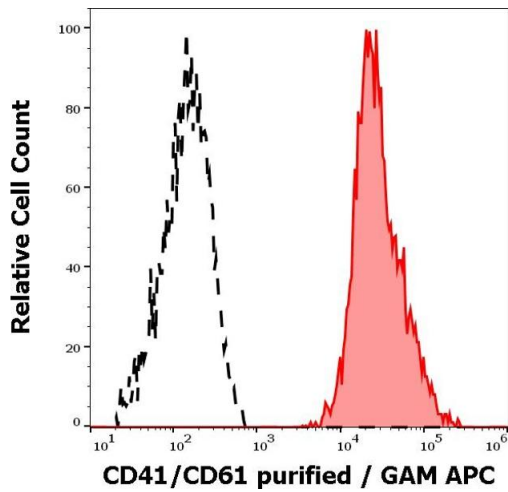
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of bovine peripheral whole blood stained using anti-bovine CD41/CD61 (IVA30) purified antibody (concentration in sample 3 µg/mL, GAM APC).



Immunocytochemistry

Image 2. Immunocytochemistry staining of acetone/methanol fixed bovine peripheral blood (thrombocyte-enriched suspension) using anti-bovine CD41/CD61 (IVA30), secondary antibody conjugated to FITC (green signal at thrombocytes), DNA stained with DAPI (blue signal).



Flow Cytometry

Image 3. Separation of human CD41/CD61 positive blood debris (red-filled) from CD41/CD61 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-bovine CD41/CD61 (IVA30) purified antibody (concentration in sample 0,3 µg/mL, GAM APC).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN94110.