

Datasheet for ABIN94134

anti-CD45 antibody**3** Images**3** Publications[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD45 (PTPRC)
Reactivity:	Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD45 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-Bov CD45R Purified
Immunogen:	Bovine leukocytes.
Clone:	IVA103
Isotype:	IgG1
Specificity:	The antibody IVA103 reacts with an extracellular epitope of CD45R antigen (bovine), a single chain type I transmembrane glycoprotein (member of the protein tyrosine phosphatase family), a restricted form of the CD45 family. CD45R is an essential regulator of T and B lymphocytes antigen receptor signaling and it is specifically expressed in hematopoietic cells.
Cross-Reactivity (Details):	Bovine
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD45 (PTPRC)
Alternative Name:	CD45R (PTPRC Products)
Background:	CD45R, also known as B220, is a receptor-type protein tyrosine phosphatase glycoprotein. It is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases, promotes cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis. CD45R expression also identifies a subset of murine bone marrow cells able to form osteoclast-like cells.,PTPRCR, T200R
Pathways:	TCR Signaling , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , CXCR4-mediated Signaling Events , BCR Signaling

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

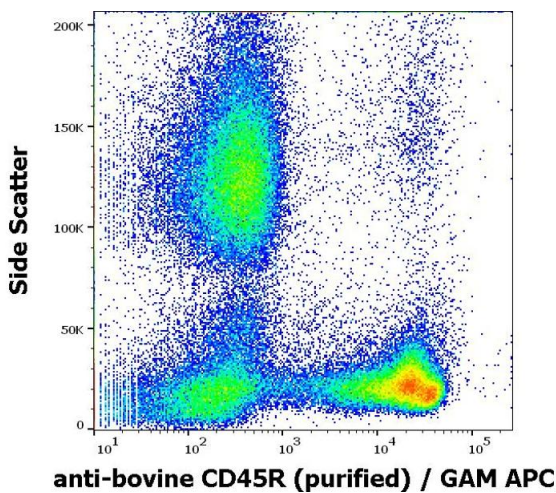
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
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).
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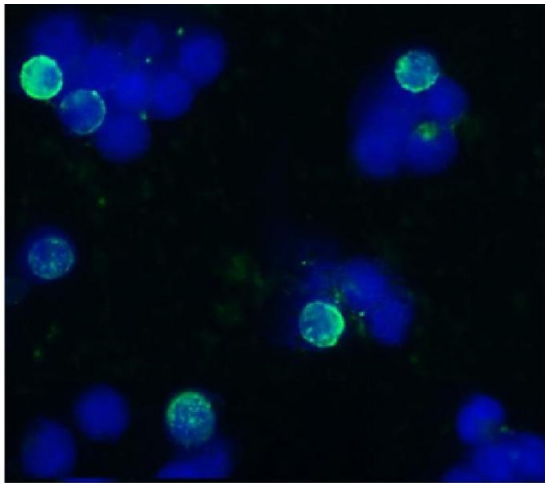
Naessens, Howard, Hopkins: "Nomenclature and characterization of leukocyte differentiation antigens in ruminants." in: **Immunology today**, Vol. 18, Issue 8, pp. 365-8, (1997) ([PubMed](#)).

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



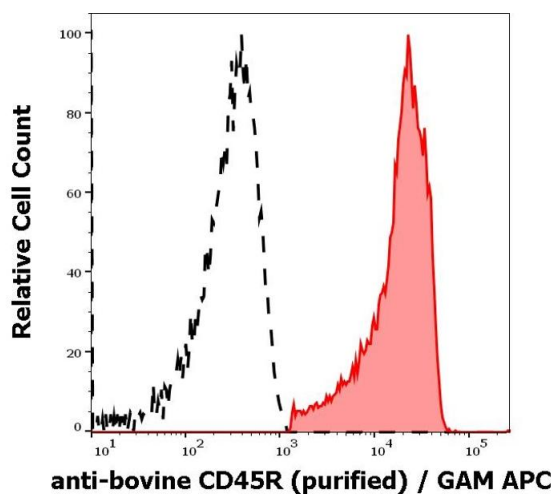
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of bovine peripheral whole blood stained using anti-bovine CD45R (IVA103) purified antibody (concentration in sample 0,1 μ g/mL) GAM APC.



Immunocytochemistry

Image 2. Immunocytochemistry staining of acetone/methanol fixed bovine peripheral blood (lymphocyte-enriched suspension) using anti-bovine CD45R (IVA103), secondary antibody conjugated to FITC (green), DNA stained with DAPI (blue).



Flow Cytometry

Image 3. Separation of bovine CD45R positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of bovine peripheral whole blood stained using anti-bovine CD45R (IVA103) purified antibody (concentration in sample $0,1 \mu\text{g/mL}$) GAM APC.