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# **Mouse anti-Cow Ig Light Chains Antibody**

**Images** 



Publication



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Quantity:	0.1 mg	
Target:	lg Light Chains	
Reactivity:	Cow, Sheep	
Host:	Mouse	
Clonality:	Monoclonal	
Application:	Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Western Blotting (WB)	

## **Product Details**

Immunogen:	Fraction of Bovine immunoglobulin.	
Clone:	IVA285-1	
Isotype:	lgG1	
Specificity:	The antibody IVA285-1 reacts with bovine Ig (light chains). Ig light chains (kappa and lambda types) consist of a variable region and a constant region and can easily be differentiated by the antigenic properties of the constant region.	
Cross-Reactivity (Details):	Bovine, Sheep	
Purification:	Purified by protein-A affinity chromatography.	
Purity:	> 95 % (by SDS-PAGE)	

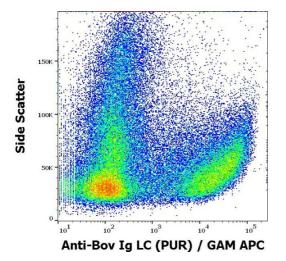
# **Target Details**

Target: Ig Light Chains

Target Details	
Background:	Immunoglobulin light chains
Application Details	
Application Notes:	Western blotting: Recommended dilution: 0,5-1 $\mu$ g/mL, overnight at 4 °C. Sample preparation: bovine serum, dilution 1:50 in Laemmli reducing buffer, boiled in water bath for 3 min. Reducing conditions, 12 % separating gel. The antibody strongly reacts with bovine IgG light chains, weakly reacts with IgM. Flow cytometry: Recommended dilution: 1-4 $\mu$ g/mL
Restrictions:	For Research Use only
Handling	
Format:	Liquid
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:	Antalíková, Simon, Jankovicová, Horovská, Dusinský, Hluchý: "Monoclonal antibody to the light

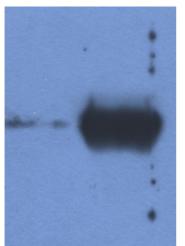
PubMed).

chain of bovine immunoglobulin." in: Hybridoma (2005), Vol. 25, Issue 5, pp. 309-12, (2006) (



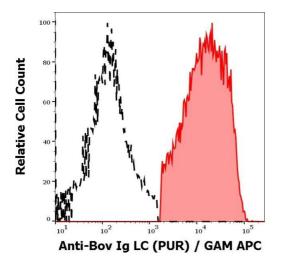
### **Flow Cytometry**

**Image 1.** Flow cytometry surface staining pattern of bovine peripheral whole blood stained using anti-bovine Ig Light Chains (IVA285-1) purified antibody (concentration in sample 3  $\mu$ g/mL, GAM APC).



#### **Western Blotting**

**Image 2.** Detection of IgG light chain in reduced samples of Fetal Calf Serum (left lane) and Bovine Serum (right lane) by antibody IVA285-1. This antibody is a suitable tool for inhouse quality controls of Fetal Calf Serum (Hybridoma Cell Culture grade).



#### **Flow Cytometry**

**Image 3.** Separation of bovine Ig Light Chains positive leukocytes (red-filled) from Ig Light Chains negative leukocytes (black-dashed) in flow cytometry analysis (surface staining) of bovine peripheral whole blood stained using anti-bovine Ig Light Chains (IVA285-1) purified antibody (concentration in sample 3 μg/mL, GAM APC).