

## Monoclonal Antibody to Sheep Lambda light chain - Supernatant

<b>Catalog No.:</b>	SM1514
<b>Quantity:</b>	2 ml
<b>Background:</b>	All five immunoglobulin classes share the same basic four polypeptide chain structure of two heavy-chains and two light chains. There are five heavy chain types, and two light-chain types (Kappa and Lambda) both having a molecular weight of 22.5kDa. Any heavy-chain type can associate with either light-chain type, but on any immunoglobulin molecule both light-chains are of the same type. Kappa and Lambda consist of a variable region and a constant region and can easily be differentiated by the antigenic properties of the constant region. The ratio of Kappa to Lambda is 70:30, the vast majority of which is bound to heavy-chain in immunoglobulin. In normal individuals low levels of free light-chain are present in serum (kappa, 1.6-15.2 mg/L; Lambda, 0.4-4.2mg/L), with the occurrence of multiple myeloma or other B-cell malignancies these levels can be greatly elevated and can be found at high levels in the urine (Bence-Jones proteins).
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	VPM8
<b>Immunogen:</b>	Sheep IgG. Cells from BALB/c mice were fused with cells of the NSO mouse myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid Tissue Culture Supernatant <b>Buffer System:</b> Contains 0.2M Tris/HCl pH7.4 and 5-10% Foetal Calf Serum with 0.01% Sodium Azide as preservative.
<b>Applications:</b>	Flow Cytometry: Use 10 µl of Neat-1/10 diluted antibody to label 10e6 cells. Immunoprecipitation (Neat). Immunohistochemistry on Frozen Sections (Neat-1/3). Western blotting (1/10). ELISA (1/10-1/500). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises ovine immunoglobulin lambda light chain. <b>Species:</b> Sheep. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Summers C, Neill W, Dewar P, Gonzalez L, van der Molen R, Norval M, et al. Systemic immune responses following infection with Jaagsiekte sheep retrovirus and in the terminal

stages of ovine pulmonary adenocarcinoma. J Gen Virol. 2002 Jul;83(Pt 7):1753-7. PubMed PMID: 12075095.