

Monoclonal Antibody to CD45 - Supernatant

Alternate names:	CD45R, CD45RA, CD45RB, CD45RO, L-CA, Leukocyte common antigen, PTPRC, T200
Catalog No.:	SM467
Quantity:	2 ml
Background:	CD45 is a family of single chain transmembrane glycoproteins consisting of at least four isoforms (220, 205, 190, 180 kDa) which share a common large intracellular domain. Their extracellular domains are heavily glycosylated. The different isoforms are produced by alternative messenger RNA splicing of three exons of a single gene on chromosome 1. CD45 is expressed on cells of the human hematopoietic lineage (including hematopoietic stem cells) with the exception of mature red cells. It is not detected on differentiated cells of other tissues. It is likely that CD45 plays an important role in signal transduction, inhibition or upregulation of various immunological functions. Antibodies recognising a common epitope on all of the isoforms are termed CD45 whilst those recognising only individual isoforms are termed CD45RA or CD45RO etc.
Host / Isotype:	Mouse / IgG1
Clone:	VPM18
Immunogen:	Sheep T lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSO myeloma cell line.
Format:	State: Liquid Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% Foetal Calf Serum with 0.09% Sodium Azide as preservative.
Applications:	Flow Cytometry: use 10 µl of neat antibody to label 10e6 cells or 100 µl whole blood. Immunohistochemistry on Frozen Sections. Immunoprecipitation. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the ovine homologue of human CD45 (leucocyte common antigen). The antibody recognises all isoforms of the molecule. Does not cross react with human. Species: Sheep. Other species not tested.
Storage:	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.
General Readings:	1. Hopkins J, Dutia BM. Monoclonal antibodies to the sheep analogues of human CD45 (leucocyte common antigen), MHC class I and CD5. Differential expression after lymphocyte

activation in vivo. Vet Immunol Immunopathol. 1990 Apr;24(4):331-46. PubMed PMID: 1692651.