

Product datasheet for **SM252P**

Cd2 Mouse Monoclonal Antibody [Clone ID: OX-34]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OX-34
Applications:	FC, IHC, IP
Recommended Dilution:	Flow cytometry: 1/50, use 10 µl of the suggested working dilution to label 10 ⁶ cells in 100µl. Immunoprecipitation. Immunohistochemistry on frozen sections and paraffin sections.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Activated rat T helper cells. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity:	This antibody recognises the CD2 cell surface antigen, a 50-54kD glycoprotein expressed by thymocytes and mature T cells.
Formulation:	PBS, pH7.4 containing 0.09% Sodium Azide State: Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	Cd2 molecule
Database Link:	Entrez Gene 497761 Rat P08921



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Background:

CD2 is a surface antigen of the human T lymphocyte lineage that is expressed on all peripheral blood T cells. It is one of the earliest T cell markers, being present on more than 95% of thymocytes; it is also found on some natural killer cells but not on B lymphocytes. CD2 interacts with lymphocyte function associated antigen (LFA3) and CD48/BCM1 to mediate adhesion between T cells and other cell types. CD2 is implicated in the triggering of T cells, the cytoplasmic domain is implicated in the signaling function. It is useful for the identification of lymphomas and leukaemias of T cell origin.

Synonyms:

SRBC, Erythrocyte receptor, LFA-2, LFA-3 receptor, Rosette receptor