

## Product datasheet for **SM1783LE**

### CD2 Mouse Monoclonal Antibody [Clone ID: LT2]

#### Product data:

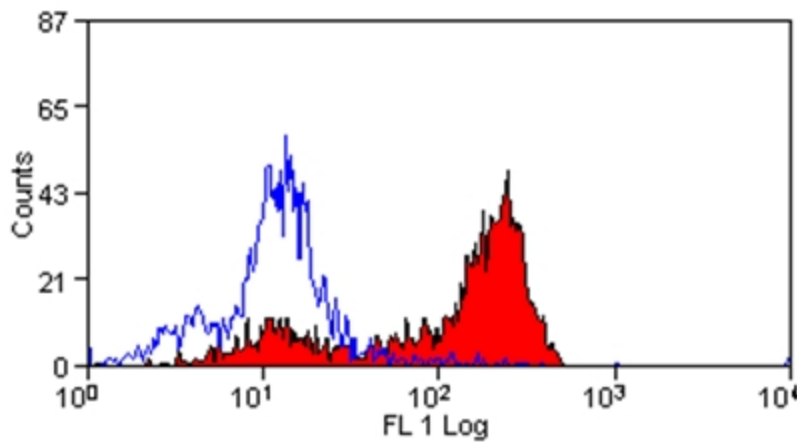
Product Type:	Primary Antibodies
Clone Name:	LT2
Applications:	FC, FN, IHC, IP
Recommended Dilution:	<b>Flow Cytometry:</b> Use 10 µl of 1/50-1/100 diluted antibody to label 10 <sup>6</sup> cells in 100 µl. <b>Immunoprecipitation.</b> <b>Functional Studies.</b> <b>Immunohistochemistry on Frozen Sections:</b> 1/200-1/400. The epitope recognized by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. We recommend the use of Acetone fixation for frozen sections. <b>Recommended Positive Control:</b> Human Tonsil.
Reactivity:	Chimpanzee, Human, Monkey
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Normal Human peripheral blood lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63.653 myeloma cell line.
Specificity:	SM1783LE is a single chain transmembrane glycoprotein of 50kD, expressed by T cells, NK cells and thymocytes. CD2 is a receptor for CD58 (LFA-3), and is important in mediating the interaction between T cells and target cells or antigen presenting cells. This antibody inhibits NK cell mediated cytotoxicity, and ConA and PHA mediated blast transformation.
Formulation:	PBS, pH 7.4 State: Azide Free State: Liquid purified IgG fraction (Low Endotoxin) Stabilizer: None Preservative: None
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G



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Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD2 molecule
Database Link:	<a href="#">Entrez Gene 914 Human P06729</a>
Background:	CD2 which is also known as E-rosette receptor, T11 and lymphocyte-function antigen-2 (LFA-2) is expressed on T cells, thymocytes, and subset of natural killer cells. Human CD2 functions as the receptor for sheep erythrocytes, human CD58 (LFA-3), and CD15s (Sialyl Lewis X). p56lck, p59fyn, CD3eta and CD3epsilon are tyrosine-phosphorylated after CD2 stimulation. CD2 play a role in T cell activation, T- or NK-cell-mediated cytotoxicity, apoptosis in activated peripheral T cells, and regulation of T cell energy.
Synonyms:	SRBC, Erythrocyte receptor, LFA-2, LFA-3 receptor, Rosette receptor
Note:	Does <b>not</b> work on paraffin sections.

### Product images:



Staining of Human peripheral blood lymphocytes with Mouse anti Human CD2 Antibody Azide Free, Low Endotoxin