

## Product datasheet for **SM1143PS**

### CD57 / HNK1 Mouse Monoclonal Antibody [Clone ID: TB01]

#### Product data:

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	TB01
<b>Applications:</b>	FC, IHC
<b>Recommended Dilution:</b>	Flow Cytometry: Use 10 µl of 1/50-1/100 diluted antibody to label 10e6 cells in 100 µl. Immunohistochemistry on Frozen Sections (1/10-1/100). Immunohistochemistry on Paraffin Sections (1/10-1/50): This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections but sodium citrate buffer may enhance staining. Recommended Positive Control: Human tonsil.
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgM
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Human neuroblastoma cells. Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line.
<b>Specificity:</b>	This antibody recognises the human CD57 molecule, expressed by NK cells and a subset of T cells.
<b>Formulation:</b>	PBS, pH7.4 containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgM fraction.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Ion Exchange Chromatography.
<b>Conjugation:</b>	Unconjugated
<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.
<b>Stability:</b>	Shelf life: one year from despatch.



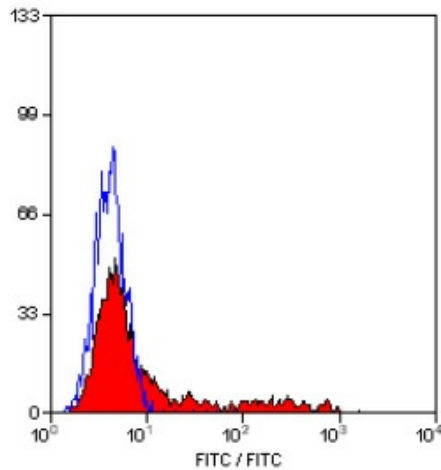
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**Background:**

CD57, also known as HNK-1, NK-1, and Leu-7, is a 100-115 kD oligosaccharide antigenic determinant expressed on a variety of proteins, lipids, and chondroitin sulfate proteoglycans. CD57 is expressed on a subset of peripheral blood lymphocytes, including NK cells and CD8+ T cells and is also expressed on neural cells and striated muscle. CD57 is not expressed on red cells, granulocytes, monocytes, or platelets. While the function of CD57 is unknown, binding to L-selectin, P-selectin, and a fragment of laminin suggests that CD57 may be involved in cell-matrix interactions. CD57 is increased in some disease states associated with CD4/CD8 imbalances (AIDS, autoimmune disease, viral infections, and allograft transplants).

**Synonyms:**

HNK-1, LEU7, NK-1, NK-Cell marker, NK1

**Product images:**

Staining of human peripheral blood lymphocytes with Mouse Anti Human CD57 ([SM1143P]/PS/PT).