

Product datasheet for **SM271P**

CD43 / Leukosialin Mouse Monoclonal Antibody [Clone ID: W3/13]

Product data:

Product Type:	Primary Antibodies
Clone Name:	W3/13
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/50-1/100 diluted antibody to label 10e6 cells in 100 µl. This product is routinely tested in flow cytometry on rat splenocytes). Immunohistochemistry on Frozen and Paraffin Sections (requires antigen retrieval using heat treatment prior to staining).
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Rat thymocyte membrane glycoproteins
Specificity:	SM271PS recognises the Rat CD43 cell surface antigen, also known as leukosialin and sialophorin. CD43 is a 95kD heavily glycosylated glycoprotein expressed by all leucocytes with the exception of B lymphocytes.
Formulation:	Phosphate buffered saline pH 7.2 with 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein G Chromatography
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. Should this product contain a precipitate we recommend microcentrifugation before use.
Stability:	Shelf life: one year from despatch.
Database Link:	P13838



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Background:

CD43 is one of the major glycoproteins of thymocytes and T lymphocytes, it plays a role in the physicochemical properties of the T cell surface and in lectin binding. CD43 presents carbohydrate ligands to selectins. It has an extended rodlike structure that could protrude above the glycocalyx of the cell and allow multiple glycan chains to be accessible for binding. The antigen is a counter receptor for SN/Siglec1. During T cell activation CD43 is actively removed from the T cell antigen presenting cell contact site suggesting a negative regulatory role in adaptive immune response.

CD43 is expressed by the majority of leucocytes, with the exception of most B cells. However CD43 expression is seen in some cases of B cell lymphocytic lymphoma and centrocytic lymphoma.

Synonyms:

Leukocyte sialoglycoprotein, Sialophorin, Galactoglycoprotein, SPN