

Product datasheet for **SM1076PS**

CD18 (ITGB2) Rat Monoclonal Antibody [Clone ID: YFC118.3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	YFC118.3
Applications:	FC, IHC, IP
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/50-1/100 diluted antibody to label 10e6 cells in 100 µl. Immunoprecipitation. Immunohistochemistry on Frozen Sections: 1/1000-1/5000. <i>Recommended Positive Control tissue:</i> Human Tonsil.
Reactivity:	Canine, Human
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human neutrophils. Spleen cells from immunised LOU rats were fused with cells of the rat Y3/Ag.1.2.3 myeloma cell line.
Specificity:	This antibody recognises the human CD18 cell surface antigen, the integrin beta2 subunit. This antibody blocks CD18 mediated homotypic adhesion.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
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:	integrin subunit beta 2
Database Link:	Entrez Gene 3689 Human P05107



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Background:

CD18 is an integrin. Integrins are integral cell surface proteins composed of an alpha chain and a beta chain. A given chain may combine with multiple partners resulting in different integrins. For example, beta 2 combines with the alpha L chain to form the integrin LFA1, and combines with the alpha M chain to form the integrin Mac1. Integrins are known to participate in cell adhesion as well as cell surface mediated signalling. CD18 is expressed by most leucocytes. Defects in the CD18 gene result in leukocyte adhesion deficiency.

Synonyms:

Integrin beta-2, MFI7