

## Monoclonal Antibody to CD18 / ITGB2 - FITC

<b>Alternate names:</b>	95 subunit beta, Cell surface adhesion glycoproteins LFA-1/CR3/p150, Complement receptor C3 subunit beta, Integrin beta-2, MFI7
<b>Catalog No.:</b>	AM01057FC-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">P53714</a>
<b>NCBI:</b>	<a href="#">NP_999073.1</a>
<b>GeneID:</b>	<a href="#">396943</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	PNK-I
<b>Immunogen:</b>	Porcine large granular lymphocytes. Spleen cells from immunised Balb/c mice were fused with cells of the mouse P3-X63-Ag8.653 myeloma cell line. <b>Genename:</b> CD18a
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer I
<b>Applications:</b>	Flow Cytometry: Use 10 µl of neat antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the porcine homologue of human CD18. Other species not tested.
<b>Add. Information:</b>	Clone PNK-I immunoprecipitates molecules of 166, 155 and 95 kDa under reducing and non-reducing conditions. Clone PNK-I has been reported to inhibit porcine NK activity without affecting antibody-dependent cellular cytotoxicity.

**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.  
This product is photosensitive and should be protected from light.  
Shelf life: one year from despatch.

**General Readings:**

1. Dato ME, Kim YB. Characterization and utilization of a monoclonal antibody inhibiting porcine natural killer cell activity for isolation of natural killer and killer cells. J Immunol. 1990 Jun 1;144(11):4452-62. PubMed PMID: 1971298.
2. Haverson K, Bailey M, Stokes CR. T-cell populations in the pig intestinal lamina propria: memory cells with unusual phenotypic characteristics. Immunology. 1999 Jan;96(1):66-73. PubMed PMID: 10233679.

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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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