

Monoclonal Antibody to CD18 / ITGB2 - PE

Alternate names:	95 subunit beta, Cell surface adhesion glycoproteins LFA-1/CR3/p150, Complement receptor C3 subunit beta, Integrin beta-2, MFI7
Catalog No.:	AM01057RP-N
Quantity:	100 Tests
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.
Uniprot ID:	P53714
NCBI:	NP_999073.1
GeneID:	396943
Host / Isotype:	Mouse / IgG1
Clone:	PNK-I
Immunogen:	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.
Format:	State: Lyophilized purified Ig fraction Purification: Affinity chromatography on Protein G Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide and 1% BSA and 5% Sucrose Label: PE – R. Phycoerythrin (RPE) Reconstitution: Restore with 1.0 ml distilled water.
Applications:	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.
Specificity:	This antibody recognises the Porcine homologue of Human CD18. 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. Species: Pig. Other species not tested.

Storage:

Store the antibody undiluted at 2-8°C.

DO NOT FREEZE!

This product is photosensitive and should be protected from light.

Should this product contain a precipitate we recommend microcentrifugation before use.

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.
3. Vanden Bergh PG, Zecchinon LL, Fett T, Desmecht D. Porcine CD18 mediates *Actinobacillus pleuropneumoniae* ApxIII species-specific toxicity. *Vet Res.* 2009 Jul-Aug;40(4):33. doi: 10.1051/vetres/2009016. Epub 2009 Apr 10. PubMed PMID: 19356397.
4. Chen ZW, Chien MS, Chang NY, Chen TH, Wu CM, Huang C, et al. Mechanisms underlying *Actinobacillus pleuropneumoniae* exotoxin ApxI induced expression of IL-1 β , IL-8 and TNF- α in porcine alveolar macrophages. *Vet Res.* 2011 Feb 7;42(1):25. doi: 10.1186/1297-9716-42-25. PubMed PMID: 21314908.
5. Vanden Bergh PG, Zecchinon LL, Fett T, Desmecht D. Probing of *Actinobacillus pleuropneumoniae* ApxIIIA toxin-dependent cytotoxicity towards mammalian peripheral blood mononucleated cells. *BMC Res Notes.* 2008 Dec 1;1:121. doi: 10.1186/1756-0500-1-121. PubMed PMID: 19046441.
6. Ebdrup L, Krog J, Granfeldt A, Tønnesen E, Hokland M. Dynamic expression of the signal regulatory protein alpha and CD18 on porcine PBMC during acute endotoxaemia. *Scand J Immunol.* 2008 Oct;68(4):430-7. doi: 10.1111/j.1365-3083.2008.02157.x. PubMed PMID: 18782273.
7. Piriou-Guzylack L, Salmon H. Membrane markers of the immune cells in swine: an update. *Vet Res.* 2008 Nov-Dec;39(6):54. doi: 10.1051/vetres:2008030. Epub 2008 Jul 19. PubMed PMID: 18638439.

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Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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