

Mouse anti-Pig CD18a Monoclonal Antibody | anti-CD18a antibody

MOUSE ANTI PIG CD18a

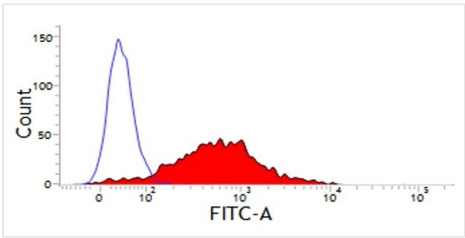
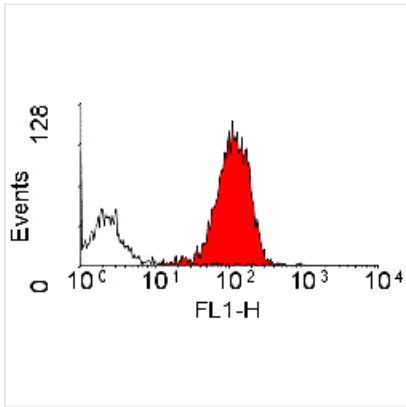
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50258	Mouse	Pig	Immunoprecipitation, Functional Assay, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD18a; Monoclonal Antibody; MOUSE ANTI PIG CD18a; anti-CD18a antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Pig
Clonality	Monoclonal
Isotype	IgG1
Clone Number	PNK-I
Specificity	CD18a
Form/Format	Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	769
Applicable Applications for anti-CD18a antibody	IP (Immunoprecipitation), FA (Functional Assay), FCM/FACS (Flow Cytometry)
Reactivity Notes	Camel
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Buffer Solution	Phosphate buffered saline
Preparation and Storage	Store at +4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.



FCM/FACS (Flow Cytometry)
Staining of peripheral blood lymphocytes with Mouse anti Pig CD18a followed by Goat anti Mouse IgG:FITC

FCM/FACS (Flow Cytometry)
Staining of porcine peripheral blood granulocytes with Mouse anti Porcine CD18a

ADDITIONAL INFORMATION

Related Product Information for anti-CD18a antibody	Mouse anti Pig CD18a, clone PNK-I recognizes porcine CD18a. PNK-I was clustered as CD18a at the Second International Workshop to Define Swine Cluster of Differentiation (CD) Antigens (Saalmuller et al. 1998). Clone PNK-I immunoprecipitates proteins of ~166 kDa, ~155 kDa and ~95 kDa under non-reducing conditions, specifically recognizing the 95 kDa protein, consistent with the integrin beta2 chain (CD18). PNK-I inhibits porcine NK cell activity independent of any effect on antibody dependent cellular cytotoxicity (Dato and Kim 1990). CD18 is a single pass type I transmembrane protein and is expressed on all leukocytes and is involved in a variety of cell functions. CD18 acts as a receptor for several ICAM molecules effecting intercellular adhesion functions, it is also involved in the recognition of a variety of extracellular substrate molecules. CD18 acts as a receptor for a number of leukotoxins produced by fungi and bacteria. Clone PNK-I is able to ameliorate the effects of these leukotoxins by blocking binding of the toxins to the CD18 receptor (Chen et al. 2011).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1708575
NCBI GeneID	396943
UniProt Accession #	P53714
Molecular Weight	84,790 Da
NCBI Official Full Name	Integrin beta-2
NCBI Official Symbol	ITGB2
NCBI Official Synonym Symbols	CD18
NCBI Protein Information	integrin beta-2
UniProt Protein Name	Integrin beta-2
UniProt Gene Name	ITGB2
UniProt Synonym Gene Names	CD18
UniProt Entry Name	ITB2_PIG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.