



Anti-ITGB2 monoclonal antibody, clone PNK-I (CABT-52006MP)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

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. Clone PNK-I immunoprecipitates proteins of ~166kDa, ~155kDa and ~95 kDa under non-reducing conditions, specifically recognizing the 95kDa protein, consistent with the integrin β 2 chain (CD18). PNK-I inhibits porcine NK cell activity independent of any effect on antibody dependent cellular cytotoxicity . 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. Mouse anti pig CD18, clone PNK-I is able to ameliorate the effects of these leukotoxins by blocking binding of the toxins to the CD18 receptor. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul.

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|---------------------------|-------------------------------------|
| Specificity | CD18a |
| Immunogen | Porcine large granular lymphocytes. |
| Isotype | IgG1 |
| Source/Host | Mouse |
| Species Reactivity | Pig, Camel |
| Clone | PNK-I |
| Conjugate | Unconjugated |
| Applications | FC; FA; IP |

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|---------------------|--|
| Format | Purified IgG - liquid |
| Size | 200 µg |
| Preservative | See individual product datasheet |
| 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. |

GENE INFORMATION

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| Gene Name | ITGB2 integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) [Sus scrofa (pig)] |
| Official Symbol | ITGB2 |
| Synonyms | ITGB2; CD18; integrin beta-2; CD18 leukocyte adhesion molecule; complement receptor C3 subunit beta; cell surface adhesion glycoproteins LFA-1/CR3/p150,95 subunit beta; CD18A; |
| Entrez Gene ID | 396943 |
| Protein Refseq | NP_999073 |
| UniProt ID | P53714 |
| Chromosome Location | chromosome: 13 |
| Pathway | Adaptive Immune System; Amoebiasis; Cell adhesion molecules (CAMs); Cell surface interactions at the vascular wall; Extracellular matrix organization; HTLV-I infection; Hemostasis; Hippo signaling pathway; |
| Function | metal ion binding; receptor activity; |