Anti-Pig CD107a Antibody, clone 4E9/11
Catalog # ABD12240

Specification

Anti-Pig CD107a Antibody, clone 4E9/11 - Product Information

<table>
<thead>
<tr>
<th>Application</th>
<th>FC</th>
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<tr>
<td>Reactivity</td>
<td>Pig</td>
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<tr>
<td>Host</td>
<td>Mouse</td>
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<tr>
<td>Clonality</td>
<td>Monoclonal</td>
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<tr>
<td>Isotype</td>
<td>IgG1</td>
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<tr>
<td>Clone Names</td>
<td>4E9/11</td>
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Anti-Pig CD107a Antibody, clone 4E9/11 - Additional Information

Immunogen
Porcine alveolar macrophages.

Target/Specificity
Mouse anti-Pig CD107a, clone 4E9/11 recognizes porcine CD107a, a cell surface antigen, also known as lysosomal-associated membrane protein-1 or LAMP-1. CD107a is a type 1 single pass transmembrane glycoprotein expressed on macrophages and more weakly on monocytes and granulocytes.

Precautions
Anti-Pig CD107a Antibody, clone 4E9/11 is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-Pig CD107a Antibody, clone 4E9/11 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytometry
- Cell Culture

Published customer image: Mouse anti Pig CD107a antibody, clone 4E9/11 used for the detection of CD107a in porcine NK cells by flow cytometry.

Image caption: Analysis of degranulation capacity in Nkp46-defined NK-cell subsets in blood. The cytolytic capacity of Nkp46-defined NK-cell subsets (CD8α+; blue, CD8α+; green) isolated from blood was analysed after receptor triggering. Cells were stimulated with rhIL-2 and rIL-15 overnight. Triggering of NK-receptors was performed by using monoclonal antibodies against Nkp46, CD16 or a combination of both. Irrelevant isotype-matched antibody served as negative control. NK-cell receptor mediated degranulation was assessed by measuring the expression of CD107a on the cell surface by four-colour flow cytometry after one hour incubation. CD107a expression was measured on CD3- lymphocytes (not shown), followed by gating on the respective Nkp46-defined NK subsets. (A) Numbers indicate the percentage of CD107a+ cells and the mean fluorescence intensity of CD107a within respective Nkp46-gates. Results are representative of experiments with five different animals. (B) CD107a expression analyses of five animals analysed. The proportion of CD107a+ cells within the different Nkp46-defined subsets is shown in the upper graphs. Percentage of CD107a+ NK cells was calculated by subtracting spontaneous degranulation observed in cultures stimulated with isotype-control antibodies from the frequency...
of CD107a+ cells in cultures stimulated with NKp46 and/or CD16 mAbs. The lower graphs show the mean fluorescence intensity of CD107a within the respective subsets. Mean values are represented by a black bar. Significant differences between the subsets are indicated (* = p < 0.05, ** = p < 0.01). From: Mair KH, Müllebner A, Essler SE, Duvigneau JC, Storset AK, Saalmüller A, Gerner W. Porcine CD8αdim/-NKp46high NK cells are in a highly activated state. Vet Res. 2013 Mar 1;44:13.

Pig peripheral blood granulocytes stained with Mouse anti Pig CD107a followed by Goat anti Mouse IgG:FITC. Membrane permeabilisation was achieved with Leucoperm &trade;

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