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30-2883: Anti-Human CD368 PE Mab (Clone:9B9)

Clonality :	Monoclonal
Clone Name :	9B9
Application :	FACS
Reactivity :	Human,Non-Human Primates
Conjugate :	PE
Gene :	CLEC4D
Gene ID :	338339
Uniprot ID :	Q8WXI8
Alternative Name :	CLEC6, CLEC4D, dectin 3, MCL, MPCL
Isotype :	Mouse IgG2b kappa
Immunogen Information :	CD368 ectodomain fused with human Fc

Description

Specificity : The mouse monoclonal antibody 9B9 recognizes an extracellular epitope of CD368, a type II transmembrane protein of C lectin family, expressed mainly on monocytes and neutrophils.

CD368 is an approximately 25-30 kDa C-type lectin, which serves as one of pattern recognition receptors of the innate immune system. It recognizes pathogen-associated molecular patterns of bacteria and fungi, such as alpha-mannans or trehalose 6,6´-dimycolate, and transfers the signal downstream using associated Fc receptor gamma chain. CD368 is expressed on neutrophils, monocytes, and on some populations of blood dendritic cells, but it decreases during differentiation of monocytes into dendritic cells or macrophages. Increased expression can be induced by IFN-gamma, TNF-alpha, IL-6, and IL-10. CD368 triggering leads to driving of antigen-presenting cells maturation and to promotion of T cell differentiation into Th1 and Th17.

Product Info

Amount :	100 tests
Purification :	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Formulation : Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

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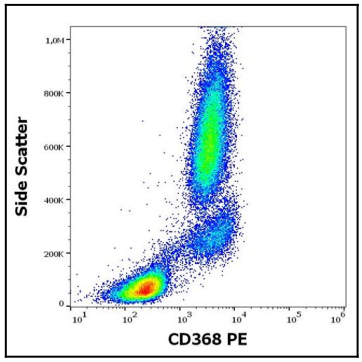

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD368 (9B9) PE antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).

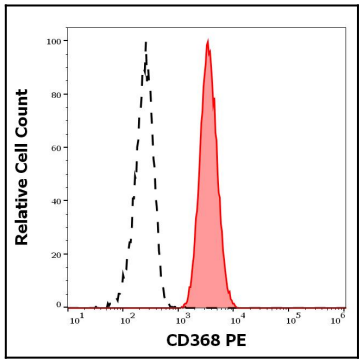

Figure 2: Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD368 (9B9) PE antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).

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