**Technical Data Sheet**

**PE Mouse Anti-Human CD368**

**Product Information**

**Material Number:** 564413  
**Alternate Name:** CLEC4D; CLECSF8; MCL; CLEC6  
**Size:** 100 Tests  
**Vol. per Test:** 5 µl/test  
**Clone:** 9B9 (also known as AB7_10.9B9)  
**Immunogen:** Human CD368 Recombinant Protein  
**Isotype:** Mouse IgG2b, κ  
**Reactivity:** QC Testing: Human  
**Workshop:** X 10-78  
**Storage Buffer:** Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

**Description**

The 9B9 monoclonal antibody specifically binds to CD368, which is also known as CLEC6 (C-type lectin-like receptor 6), CLEC4D, CLECSF8, and MCL (macrophage C-type lectin). CD368 is a 30 kDa type II transmembrane glycoprotein that belongs to the C-type Lectin Receptor family of molecules. It is primarily expressed on peripheral blood neutrophils and monocytes and weakly on several subsets of blood dendritic cells. Expression of this receptor is lost upon in vitro differentiation of monocytes into dendritic cells or macrophages. CD368 reportedly serves as an endocytic receptor that may function in antigen clearance and presentation to T lymphocytes. CD368 may also play roles in cellular adhesion, signaling and glycoprotein turnover. CD368 expression can be upregulated by cells in response to cytokines including IFN-γ, TNF, IL-6, and IL-10.

**Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

**Application Notes**

**Application**

| Flow cytometry | Routinely Tested |

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**Flow cytometric analysis of CD368 expression on human peripheral blood leucocytes.** Whole blood was stained with either PE Mouse IgG2b, κ Isotype Control (Cat. No. 555058; Left Panel) or PE Mouse Anti-Human CD368 antibody (Cat. No. 564413; Right Panel). Erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). Contour plots show the expression of CD368 (or Ig Isotype control staining) on cells derived from gated events with the forward and side light-scatter characteristics of viable leucocyte populations. Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer System.
Suggested Companion Products

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<td>PE Mouse IgG2b κ Isotype Control</td>
<td>100 Tests</td>
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<td>555058</td>
<td>PE Mouse IgG2b, κ Isotype Control</td>
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Product Notices
1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. An isotype control should be used at the same concentration as the antibody of interest.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at wwwbdbiosciencescom/colors.
6. Please refer to wwwbdbiosciencescom/pharmingen/protocols for technical protocols.

References