

## 30-2570PE: PE Conjugated Anti-CD370 Antibody (Clone : 8F9)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	8F9
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	PE
<b>Gene :</b>	CLEC9A
<b>Gene ID :</b>	283420
<b>Alternative Name :</b>	CLEC9A, DNGR1, DNGR-1, UNQ9341, C-type lectin domain containing 9A
<b>Isotype :</b>	Mouse IgG2a
<b>Immunogen Information :</b>	RBL-2H3 cells expressing human CLEC9A fused to an HA epitope

### Description

CD370 / CLEC9A, also known as DNGR1, is a type II transmembrane glycoprotein with extracellular C-type lectin domain and intracellular ITAM-containing domain. Its expression is restricted to BDCA3+ conventional dendritic cells and to a subset of CD14+ CD16- monocytes. CD370 serves as a receptor for ubiquitous preformed acid-labile protein associated ligands that are exposed when the cell membrane is damaged, such as on necrotic cells. Its triggering by these ligands mediates recruitment and activation of the tyrosine kinase Syk and leads to their cross-presentation to the immune system.

Specificity : The mouse monoclonal antibody 8F9 recognizes an extracellular epitope of CD370 / CLEC9A (DNGR1), a type II transmembrane protein functioning as an endocytic receptor on BDCA31+ dendritic cells and on a subset of CD14+ CD16- monocytes.

### Product Info

<b>Amount :</b>	100 tests
<b>Purification :</b>	The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
<b>Content :</b>	Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
<b>Storage condition :</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

### Application Note

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

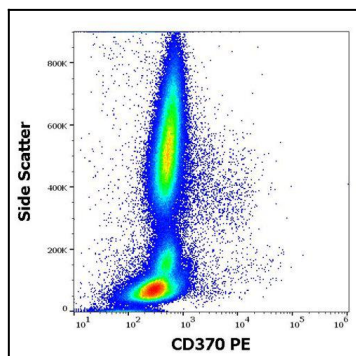


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD370 (8F9) PE antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).

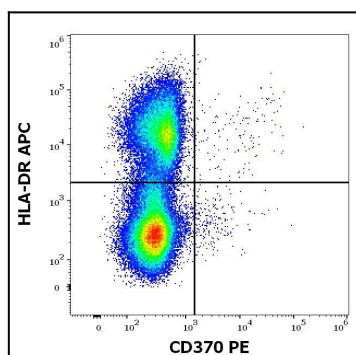


Figure 2 : Flow cytometry multicolor surface staining of human peripheral blood mononuclear cells stained using anti-human CD370 (8F9) PE antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood) and anti-human HLA-DR (MEM-12) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).

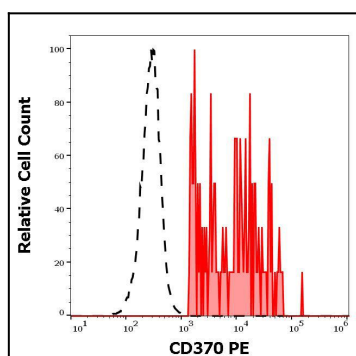


Figure 3 : Separation of human CD370 positive HLA-DR positive cells (red-filled) from CD370 negative HLA-DR negative cells (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD370 (8F9) PE antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).