Technical Data Sheet

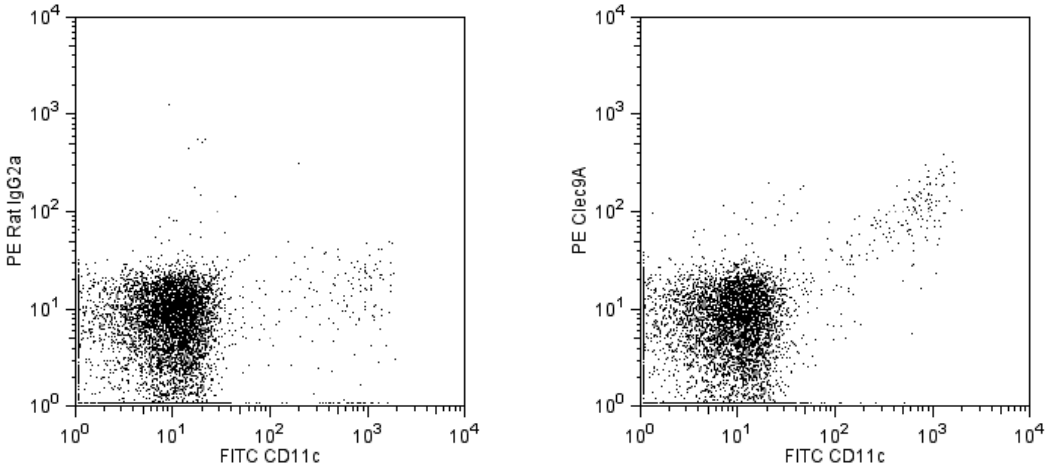
PE Rat anti-Mouse Clec9A

Product Information

Material Number:	**562734**
Alternate Name:	CLC9A; Clec9a; DNGR-1; C-type lectin domain family 9 member A
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	10B4 (also known as 24/04-10B4)
Immunogen:	Mouse Clec9A
Isotype:	Rat (WI) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 10B4 monoclonal antibody specifically binds to mouse Clec9A. Mouse Clec9A (C-type lectin domain family member 9A) is also known as DNGR1 (Dendritic cell natural killer lectin group receptor 1). It is a type II membrane protein with a single extracellular C-type lectin domain. Clec9A is a dendritic cell subtype-restricted C-type lectin-like receptor. Clec9A is selectively expressed on plasmacytoid dendritic cells and CD8+ myeloid dendritic cells. Clec9A reportedly serves as a receptor for necrotic cells. It can mediate the cross-presentation of dead-cell associated antigens in a Syk-dependent manner.



Multicolor flow cytometric analysis of mouse Clec9A expression in spleen cells. *BALB/c splenocytes were simultaneously stained with Alexa Fluor® 700 Rat Anti-Mouse CD4 (Cat. No. 557956), APC Rat Anti-Mouse CD8 (Cat. No. 553035), FITC Hamster Anti-Mouse CD11c (Cat. No. 553801) antibodies and either PE Rat IgG2a κ Isotype Control (Cat. No. 553930) or PE Rat Anti-Mouse Clec9A antibody (Cat. No. 562734). Two color flow cytometric dot blots showing the correlated expression pattern of CD11c and Clec9A (or Ig Isotype control staining) were generated from CD8+ CD4- gated events with the forward and side light-scatter characteristics of viable cells. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.*

Preparation and Storage

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

Application Notes

Application

Flow cytometry	Routinely Tested

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Suggested Companion Products

Catalog Number	Name	Size	Clone
553930	PE Rat IgG2a, κ Isotype Control	0.1 mg	R35-95
554656	Stain Buffer (FBS)	500 ml	(none)
557956	Alexa Fluor® 700 Rat Anti-Mouse CD4	0.1 mg	RM4-5
553035	APC Rat Anti-Mouse CD8a	0.1 mg	53-6.7
553801	FITC Hamster Anti-Mouse CD11c	0.5 mg	HL3

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
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 www.bdbiosciences.com/colors.

References

Caminschi L, Proietto AL, Ahmet F, et al. The dendritic cell subtype restricted C-type lectin Clec9A is a target for vaccine enhancement. *Blood.* 2008; 112(8):3264-3273. (Immunogen)

Huysamen C, Willment JA, Dennehy KM, Brown GD. CLEC9A is a novel activation C-type lectin-like receptor expressed on BDCA3+ dendritic cells and a subset of monocytes. *J Biol Chem.* 2008; 283(24):16693. (Biology)

Sancho D, Joffre OP, Keller AM, Rogers NC, Martinez D, Hernanz-Falcon P, Rosewell I, Reis e Sousa C. Identification of a dendritic cell receptor that couples sensing of necrosis to immunity. *Nature.* 2009; 458(7240):899-903. (Biology)

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