

Datasheet for ABIN2659221
anti-CLEC10A antibody (PE-Cy7)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	CLEC10A
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CLEC10A antibody is conjugated to PE-Cy7
Application:	Flow Cytometry (FACS)

Product Details

Clone:	LOM-14
Isotype:	IgG2b kappa
Purification:	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Target Details

Target:	CLEC10A
Alternative Name:	CD301 (CLEC10A Products)
Background:	Mouse CD301, also known as macrophage galactose-type C-type lectin, has two homologue genes, CD301a (MGL1) and CD301b (MGL2), while there is only one MGL in human and rat. Mouse CD301a and CD301b are ~42 kD type II transmembrane glycoproteins containing a cytoplasmic domain, a transmembrane domain, a neck domain, and a carbohydrate recognition

Target Details

domain (CRD) within each molecule. CD301a is mainly expressed on a subset of macrophages and immature dendritic cells (DCs). CD301b is mainly found on conventional DCs. Although CD301a and CD301b share high amino acid sequence homology (92 % for the intact sequence and 80 % for the CRD), they display different carbohydrate specificities. CD301a was found to be highly specific for Lewis X and Lewis A structures, whereas CD301b, more similar to the human MGL, recognizes N-acetylgalactosamine (GalNAc) and galactose, including the O-linked Tn-antigen, TF-antigen, and core 2. So far, CD301a has been reported to be involved in recognition and endocytosis of glycoproteins with terminal Gal/GalNAc moieties. This contributes to defense against tumor cell metastasis, tissue remodeling, and clearance of apoptotic cells in embryos. CD301b is involved in the internalization of soluble polyacrylamide polymers (PAA) with α -GalNAc residues (GalNAc-PAA) in bone marrow derived dendritic cells.

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
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Restrictions:	For Research Use only
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Handling

Concentration:	0.2 mg/mL
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Buffer:	Phosphate-buffered solution, pH 7.2, containing 0.09 % sodium azide.
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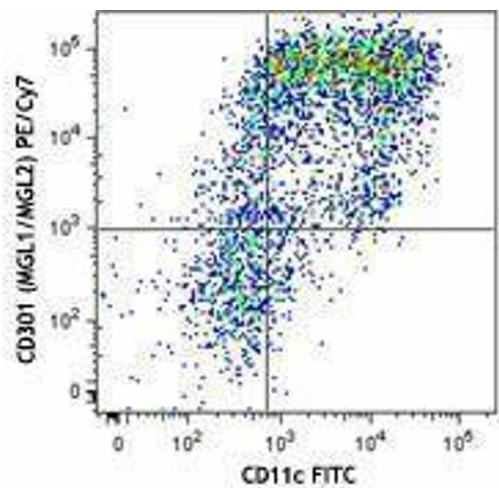
Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Handling Advice:	Protect from prolonged exposure to light. Do not freeze.
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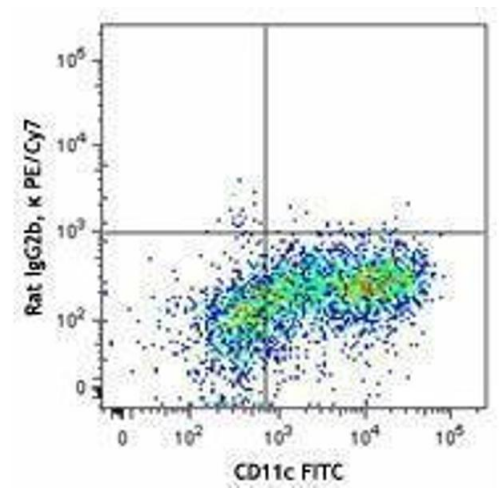
Storage:	4 °C
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Storage Comment:	The antibody solution should be stored undiluted between 2°C and 8°C.
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Flow Cytometry

Image 1.



Flow Cytometry

Image 2.