

PE anti-mouse/human CD207 (Langerin) Recombinant Antibody

Catalog# / Size	169103 / 25 µg 169104 / 100 µg
Clone	QA20A85
Regulatory Status	RUO
Other Names	CLEC4K
Isotype	Mouse IgG1, κ
Description	CD207, also known as langerin, is a 40 kD single-pass type II transmembrane protein, member of the C-type lectin family. CD207 is expressed on the cell surface and Birbeck granules (BGs) of Langerhans cells, and subsets of thymic and splenic dendritic cells. Its ligands are mannose, n-acetylglucosamine, fucose, and sulfated glycans. Langerin is involved in the antigen processing pathway through capture and internalization of its ligands.

Product Details

Verified Reactivity	Human, Mouse
Antibody Type	Recombinant
Host Species	Mouse
Immunogen	Langerin extracellular domain-Fc fusion protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)

Antigen Details

Structure	Single-pass type II transmembrane protein, 40 kD, one C-type lectin domain, homotrimer
Distribution	Langerhans cells, subsets of thymic and splenic dendritic cells
Function	Antigen uptake, antigen processing
Ligand/Receptor	Mannose, <i>n</i> -acetylglucosamine, fucose, sulfated glycans
Cell Type	Dendritic cells, Langerhans cells
Biology Area	Immunology, Innate Immunity

Molecular Family

CD Molecules

Antigen References

1. Romani N, *et al.* 2012. *Curr. Top. Microbiol. Immunol.* 351:113.
2. Kaplan DH. 2010. *Trends Immunol.* 31:446.
3. Clausen BE and Kel JM. 2010. *Immunol Cell Biol.* 88:351.
4. Merad M, *et al.* 2008. *Nat Rev Immunol.* 8:935.

Gene ID

[246278](#)

[50489](#)

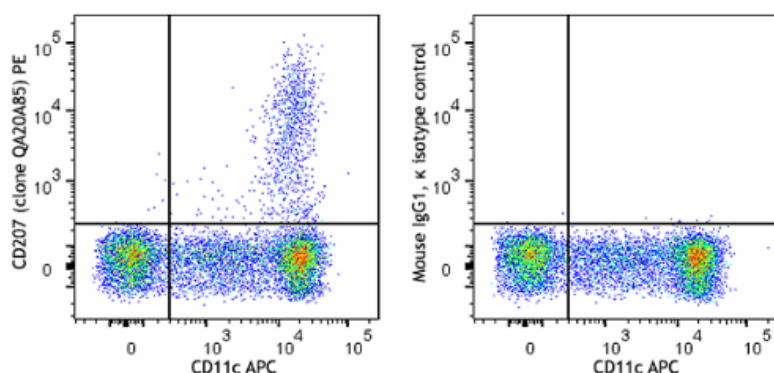
Related Protocols

- [MojoSort™ Isolation Kits Protocol - 4](#)
- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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Product Data



Dendritic cells were isolated from collagenase-digested BALB/c mouse spleen using the MojoSort™ Mouse Pan Dendritic Cell Isolation Kit (Cat. No. 480098) and were stained with anti-mouse CD11c (clone N418) APC and anti-mouse/human CD207 (Langerin) recombinant (clone QA20A85) PE (left), or mouse IgG1, κ PE isotype control (right).

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