

PE anti-human MRP-14 (S100A9) Antibody

Catalog# / Size	377128 / 25 tests 377129 / 100 tests
Clone	A22135F
Regulatory Status	RUO
Other Names	S100A9, Migration inhibitory factor-related proteins-14, Calgranulin-B, Leukocyte L1 complex heavy chain, Calprotectin L1H subunit
Isotype	Mouse IgG2b, κ
Description	The S100A8/A9 complex has been shown to play a role in calcium-dependent activation and exhibits antibacterial, antifungal, immunomodulatory, and anti-proliferative effects. It also functions as a chemoattractant for neutrophils and serves as an endogenous activator of Toll-like receptor 4 (TLR4). S100A9 has been identified as a marker of CD14 ⁺ HLA-DR ⁺ /low myeloid-derived suppressor cells (MDSCs).

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant protein of human MRP-14 (S100A9)
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. 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)
RRID	AB_3720634 (BioLegend Cat. No. 377128) AB_3720634 (BioLegend Cat. No. 377129)

Antigen Details

Structure	S100A9 belongs to S100 family of proteins containing 2-EF-hand calcium-binding motifs, forms non-covalently associated complexes with another S100 family member MRP-8.
Distribution	Secreted and localized to the cytoplasm and cell membrane in cells such as MDSCs, neutrophils, monocyte, and ileal tissue eosinophils
Function	Calcium-dependent activation, immunomodulating and antiproliferative, endogenous activator of Toll-like receptor 4

Cell Type	Eosinophils, Monocytes, Neutrophils
Biology Area	Cell Adhesion, Cell Biology, Immunology, Innate Immunity, Signal Transduction
Molecular Family	Adhesion Molecules

Antigen References

1. Loser K, *et al.* 2010. *Nat. Med.* 16:713.
2. Cheng P, *et al.* 2008. *J. Exp. Med.* 205:2235.
3. Leukert N, *et al.* 2006. *J. Mol. Biol.* 359:961.
4. Lagasse E, *et al.* 1988. *Mol. Cell. Biol.* 8:2402.
5. Zhao F, *et al.* 2012. *Immunology.* 136:176.

Gene ID [6280](#)

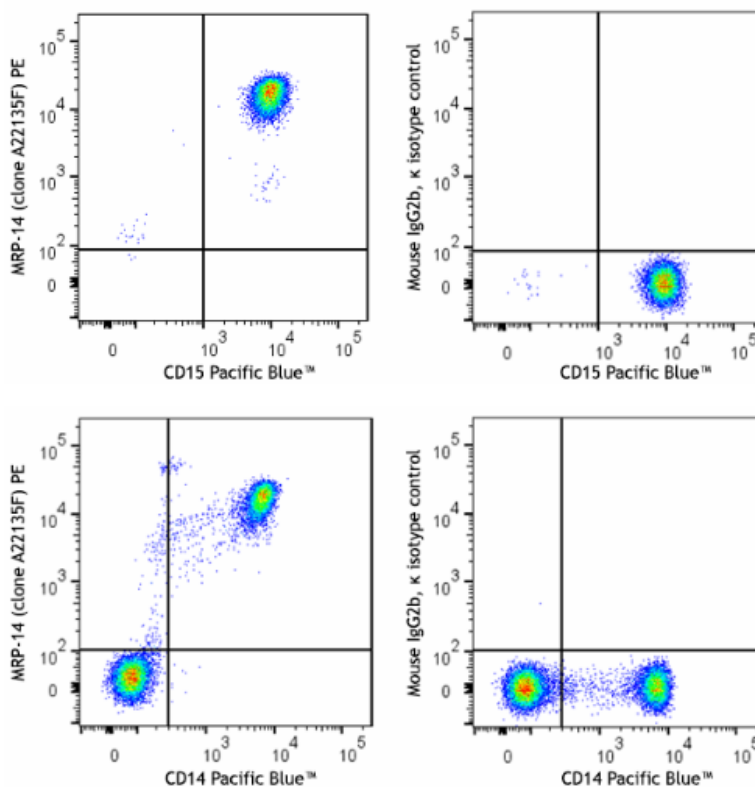
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human MRP-14 (S100A9), PE anti-human MRP-14 (S100A9)

Product Data



Human peripheral blood granulocytes were fixed and permeabilized with Cyto-Fast™ Fix/Perm Buffer (Cat. No.426803) and intracellularly stained with anti-human CD15 (clone W6D3) Pacific Blue™ and anti-human MRP-14 (S100A9) (clone A22135F) PE (left) or mouse IgG2b, κ PE isotype control (right).

Human peripheral blood mononuclear cells were fixed and permeabilized with Cyto-Fast™ Fix/Perm Buffer (Cat. No.426803) and intracellularly stained with anti-human CD14 (clone HCD14) Pacific Blue™ and anti-human MRP-14 (S100A9) (clone A22135F) (left) or mouse IgG2b, κ PE isotype control (right). Data shown is gated on the lymphocyte and monocyte populations.

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