

CD172a (SIRP alpha) Monoclonal Antibody (15-414), APC, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	15-414
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1944411

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	7 Publications

Product Specific Information

Description: This 15-414 monoclonal antibody reacts with human CD172a, also known as signal regulatory protein alpha (SIRP alpha). This cell surface glycoprotein consists of three Ig-like extracellular domains and two cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs). The ITIM domains have been demonstrated to recruit and bind the Src homology 2 domain-containing phosphatases SHP-1 and SHP-2. CD172a is expressed on monocytes, granulocytes, dendritic cells, and CD34+CD38- hematopoietic progenitor cells but not on T and B lymphocytes. Moreover, neurons have also been shown to express CD172. The integrin-associated protein CD47 is the extracellular ligand for CD172a. Studies show that CD172a is involved in dendritic cell-mediated T cell activation, neutrophil migration, and phagocytosis.

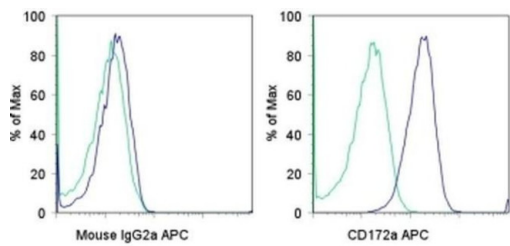
Applications Reported: This 15-414 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 15-414 antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood cells. This can be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Excitation: 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD172a (SIRP alpha) Monoclonal Antibody (15-414), APC, eBioscience™



CD172a (SIRP alpha) Antibody (17-1729-41) in Flow
Staining of normal human peripheral blood cells with Mouse IgG2a K Isotype Control APC (Product # 17-4724-81) (left) or Anti-Human CD172a (SIRP alpha) APC (right). Cells in the lymphocyte (green histogram) or granulocyte (blue histogram) gate were used for analysis.

7 References

Flow Cytometry (7)

EBioMedicine SIRP maintains macrophage homeostasis by interacting with PTK2B kinase in Mycobacterium tuberculosis infection and through autophagy and necroptosis. "Published figure using CD172a (SIRP alpha) monoclonal antibody (Product # 17-1729-42) in Flow Cytometry" Authors: Wang D,Lin Y,Xu F,Zhang H,Zhu X,Liu Z,Hu Y,Dong G,Sun B,Yu Y,Ma G,Tang Z,Legarda D,Ting A,Liu Y,Hou J,Dong L,Xiong H	Year 2022
Stem cells (Dayton, Ohio) Comprehensive Cell Surface Antigen Analysis Identifies Transferrin Receptor Protein-1 (CD71) as a Negative Selection Marker for Human Neuronal Cells. Authors: Menon V,Thomas R,Elgueta C,Hori M,Osborn T,Hallett PJ,Bartos M,Isacson O,Pruszk J	Year 2019 Species Human Dilution 0.5 µg/mL

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