CD80 (B7-1) Monoclonal Antibody (16-10A1), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Dog, Mouse, Pig
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	16-10A1
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573695

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	55 Publications

Product Specific Information

Description: The 16-10A1 monoclonal antibody reacts with mouse CD80 (B7-1), a 55 kDa member of the Ig superfamily. CD80 is expressed by macrophages, dendritic cells and activated B cells. In addition, activated T cells express this antigen. CD80 has high affinity for binding to two T cell surface antigens, CD28 and CD152 (CTLA-4). The interaction of CD28 and CD152 with CD80 is crucial in T-B cell communication leading to activation of T and B cells, respectively.

Applications Reported: This 16-10A1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 16-10A1 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.125 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

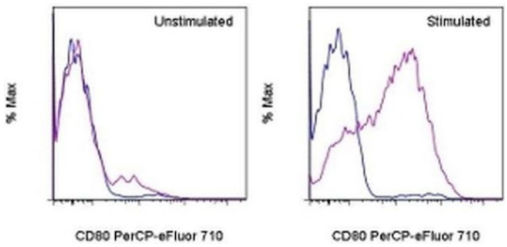
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD80 (B7-1) Monoclonal Antibody (16-10A1), PerCP-eFluor™ 710, eBioscience™



CD80 (B7-1) Antibody (46-0801-80) in Flow
Mouse splenocytes were unstimulated (left) or stimulated for 2 days with F (ab')2 Anti-Mouse IgM, u chain specific Functional Grade Purified (Product # 16-5092-85) and Anti-Mouse CD40 Functional Grade Purified (Product # 16-0401-82) (right). Cells were then stained with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.06 µg of Armenian Hamster IgG Isotype Control PerCP-eFluor® 710 (Product # 46-4888-82) (blue histogram) or 0.06 µg of Anti-Mouse CD80 (B7-1) PerCP-eFluor® 710 (purple histogram). Cell in the CD45R (B220) positive gate were used for analysis.

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55 References

Flow Cytometry (55)

Bioactive materials

Spontaneous immunomodulation and regulation of angiogenesis and osteogenesis by Sr/Cu-borosilicate glass (BSG) bone cement to repair critical bone defects.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 46-0801-82) in Flow Cytometry"

Authors: Li S,Zhang L,Liu C,Kim J,Su K,Chen T,Zhao L,Lu X,Zhang H,Cui Y,Cui X,Yuan F,Pan H

Year
2023

British journal of pharmacology

Calcaratarin D, a labdane diterpenoid, attenuates mouse asthma via modulating alveolar macrophage function.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 46-0801-82) in Flow Cytometry"

Authors: Liao W,Foo HYC,Tran TNQ,Chai CLL,Wong WSF

Year
2023

Species
Mouse

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