

CD36 Monoclonal Antibody (HM36), Super Bright™ 600, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HM36
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Immunogen	CHO cells transfected with full-length mouse CD36
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2734971

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	1 Publication

Product Specific Information

Description: This HM36 antibody recognizes mouse CD36, also known as scavenger receptor BIII.

Applications Reported: This HM36 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HM36 antibody has been tested by flow cytometric analysis of thioglycolate-elicited peritoneal macrophages. This may be used at less than or equal to 1.0 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

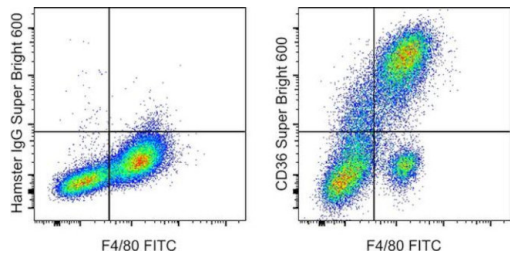
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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: 405 nm; Emission: 600 nm; Laser: Violet Laser

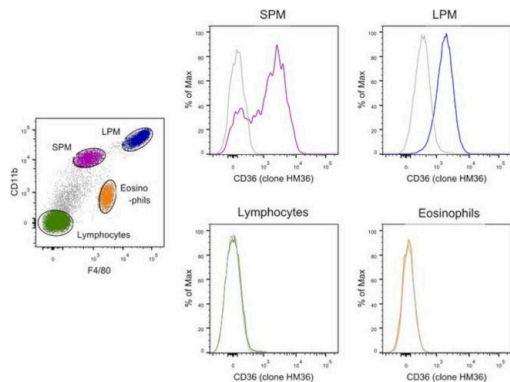
Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD36 Monoclonal Antibody (HM36), Super Bright™ 600, eBioscience™



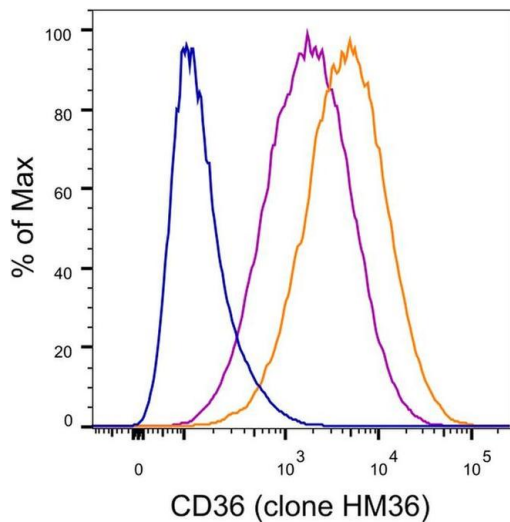
CD36 Antibody (63-0362-82) in Flow

BALB/c mouse thioglycolate-elicited peritoneal exudate cells were stained with F4/80 Monoclonal Antibody, FITC (Product # 11-4801-82) and 0.5 µg of Armenian Hamster IgG Isotype Control, Super Bright 600 (Product # 63-4888-82) (left) or 0.5 µg of CD36 Monoclonal Antibody, Super Bright 600 (right).



CD36 Antibody (63-0362-82)

Staining of mouse resident peritoneal exudate cells. As expected based on known expression patterns, CD36 is expressed on Small Peritoneal Macrophages (SPM) and Large Peritoneal Macrophages (LPM) but not eosinophils or lymphocytes. Details: C57BL/6 resident peritoneal exudate cells were stained with CD11b (clone M1/70), F4/80 (clone BM8), and either CD36 (clone HM36, colored histograms), or Armenian Hamster IgG Isotype Control (gray histograms). Cells in the indicated color gates were used for analysis. {RE}



CD36 Antibody (63-0362-82)

Staining of RAW264.7 cells treated with IL-4. As expected based on the published data, RAW264.7 polarized with IL-4 for 24 hours up-regulate expression of CD36. Details: RAW264.7 cells were cultured untreated (purple histogram) or treated with IL-4 for 24 hours (orange histogram). The cells were then Fc blocked and stained with CD36 (clone HM36) (orange and purple histograms) or Armenian Hamster Isotype control (blue histogram). {TM}

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Flow Cytometry (1)

PLoS pathogens	Year 2021
Carbomer-based adjuvant elicits CD8 T-cell immunity by inducing a distinct metabolic state in cross-presenting dendritic cells.	
"Published figure using CD36 monoclonal antibody (Product # 63-0362-82) in Flow Cytometry"	
Authors: Lee W,Kingstad-Bakke B,Paulson B,Larsen A,Overmyer K,Marinaik CB,Dulli K,Toy R,Vogel G,Mueller KP, Tweed K,Walsh AJ,Russell J,Saha K,Reyes L,Skala MC,Sauer JD,Shayakhmetov DM,Coon J,Roy K,Suresh M	

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