

CD309 (FLK1) Monoclonal Antibody (Avas12a1), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	Avas12a1
Conjugate	Super Bright™ 436
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_2688149

Applications	Tested Dilution	Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Flow Cytometry (Flow)	1.0 µg/test	2 Publications

Product Specific Information

Description: The Avas12a1 monoclonal antibody reacts with mouse Flk-1, also known as vascular endothelial growth factor receptor 2 (VEGFR2). Flk-1 is a receptor tyrosine kinase involved in vascular endothelial tissue development and is expressed on endothelial cells during embryonic stages and some endothelial tissues in the adult.

Applications Reported: This Avas12a1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This Avas12a1 antibody has been tested by flow cytometric analysis of bEnd.3 cells. 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.

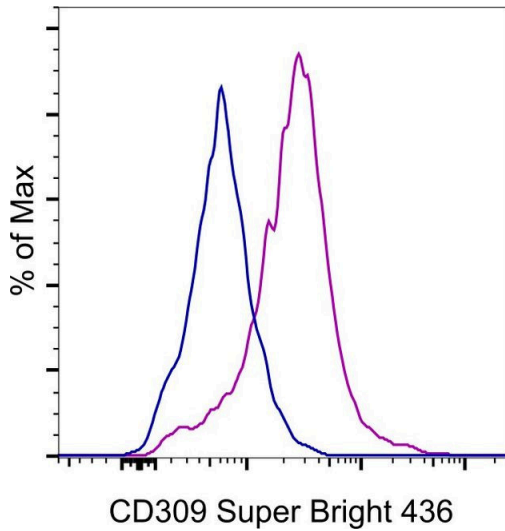
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

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

Product Images For CD309 (FLK1) Monoclonal Antibody (Avas12a1), Super Bright™ 436, eBioscience™



CD309 (FLK1) Antibody (62-5821-82) in Flow

bEnd.3 cells were stained with 0.5 µg of Rat IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4321) (blue histogram) or 0.5 µg of CD309 (FLK-1) Monoclonal Antibody, Super Bright 436 (purple histogram). Viable cells were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

Immunohistochemistry (PFA fixed) (1)

PloS one

Activation of the canonical bone morphogenetic protein (BMP) pathway during lung morphogenesis and adult lung tissue repair.

"Published figure using CD309 (FLK1) monoclonal antibody (Product # 62-5821-82) in Immunohistochemistry (PFA fixed)"

Authors: Sountoulidis A, Stavropoulos A, Giaglis S, Apostolou E, Monteiro R, Chuva de Sousa Lopes SM, Chen H, Stripp BR, Mummery C, Andreakos E, Sideras P

Year
2013

Flow Cytometry (2)

Cell stem cell

The Isl1/Ldb1 Complex Orchestrates Genome-wide Chromatin Organization to Instruct Differentiation of Multipotent Cardiac Progenitors.

"Published figure using CD309 (FLK1) monoclonal antibody (Product # 62-5821-82) in Flow Cytometry"

Authors: Caputo L, Witzel HR, Kolovos P, Cheedipudi S, Looso M, Mylona A, van IJcken WF, Laugwitz KL, Evans SM, Braun T, Soler E, Grosveld F, Dobrova G

Year
2015

Biomaterials

Recapitulation of the embryonic cardiovascular progenitor cell niche.

"Published figure using CD309 (FLK1) monoclonal antibody (Product # 62-5821-82) in Flow Cytometry"

Authors: Schenke-Layland K, Nsair A, Van Handel B, Angelis E, Gluck JM, Votteler M, Goldhaber JI, Mikkola HK, Kahn M, MacLellan WR

Year
2011

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