

CD309 (FLK1) Monoclonal Antibody (Avas12a1), Alexa Fluor 700, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Dog, Mouse, Human
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	Avas12a1
Conjugate	Alexa Fluor® 700
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_529564

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	16 Publications
Immunofluorescence (IF)	-	5 Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Peptide Array (Array)	-	1 Publication

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.

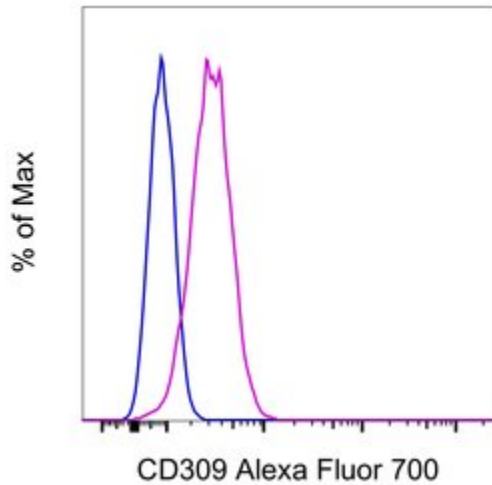
Applications Tested: This Avas12a1 antibody has been tested by flow cytometric analysis of bEND3 endothelial cell line. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should 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.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD309 (FLK1) Monoclonal Antibody (Avas12a1), Alexa Fluor 700, eBioscience™



CD309 (FLK1) Antibody (56-5821-81) in Flow

BEnd.3 cells were stained with 0.5 µg of Rat IgG2a kappa Isotype Control, Alexa Fluor 700 (Product # 56-4321-80) (blue histogram) or 0.5 µg of CD309 (FLK1) Monoclonal Antibody, Alexa Fluor 700 (purple histogram). Total cells were used for analysis.

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Flow Cytometry (16)

Journal of stem cells and regenerative medicine

Comparing the *in vivo* and *in vitro* effects of hypoxia (3% O₂) on directly derived cells from murine cardiac explants versus murine cardiosphere derived cells.

"56-5821 was used in Flow cytometry/Cell sorting to compare explant-derived cells with cardiosphere-derived cells, and assess the effect of hypoxic reconditioning on their pro-angiogenic potential."

Authors: Amirrasouli MM,Shamsara M

Species
Mouse

Dilution
Not Cited

Year
2019

eLife

Single-cell transcriptomics reveals a new dynamical function of transcription factors during embryonic hematopoiesis.

"Published figure using CD309 (FLK1) monoclonal antibody (Product # 56-5821-81) in Flow Cytometry"

Authors: Bergiers I,Andrews T,Vargel Bölükba Ö,Buness A,Janosz E,Lopez-Anguita N,Ganter K,Kosim K,Celen C,Itr Perçin G,Collier P,Baying B,Benes V,Hemberg M,Lancrin C

Species
Not Applicable

Dilution
Not Cited

Year
2018

[View more Flow references on thermofisher.com](#)

Peptide Array (1)

eLife

Single-cell transcriptomics reveals a new dynamical function of transcription factors during embryonic hematopoiesis.

"Published figure using CD309 (FLK1) monoclonal antibody (Product # 56-5821-81) in Flow Cytometry"

Authors: Bergiers I,Andrews T,Vargel Bölükba Ö,Buness A,Janosz E,Lopez-Anguita N,Ganter K,Kosim K,Celen C,Itr Perçin G,Collier P,Baying B,Benes V,Hemberg M,Lancrin C

Species
Not Applicable

Dilution
Not Cited

Year
2018

Immunohistochemistry (4)

JCI insight

Sustained inflammation after pericyte depletion induces irreversible blood-retina barrier breakdown.

"Published figure using CD309 (FLK1) monoclonal antibody (Product # 56-5821-81) in Immunohistochemistry"

Authors: Ogura S,Kurata K,Hattori Y,Takase H,Ishiguro-Oonuma T,Hwang Y,Ahn S,Park I,Ikeda W,Kusuhara S,Fukushima Y,Nara H,Sakai H,Fujiwara T,Matsushita J,Ema M,Hirashima M,Minami T,Shibuya M,Takakura N,Kim P,Miyata T,Ogura Y,Uemura A

Species
Not Applicable

Dilution
Not Cited

Year
2017

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (P) (1)

IF (5)

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