

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

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Dog, Mouse, Human
Host/Isotype	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
Excitation/Emission Max	696/719 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_529564

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	20 Publications
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.

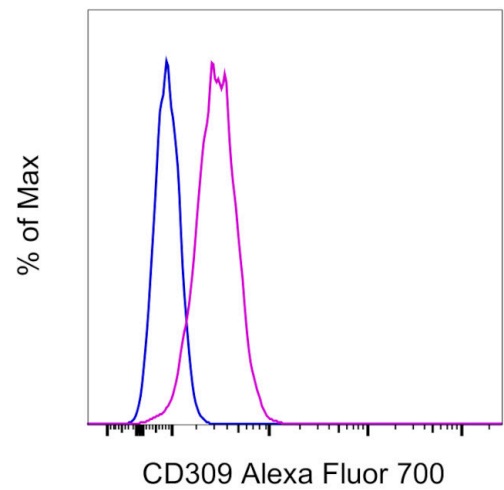
**Applications Tested:** This Avas12a1 antibody has been tested by flow cytometric analysis of bEND3 endothelial cell line. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> 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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Immunohistochemistry (6)

JCI insight	Year 2017
<b>Sustained inflammation after pericyte depletion induces irreversible blood-retina barrier breakdown.</b>	
"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	
PloS one	Year 2013
<b>Activation of the canonical bone morphogenetic protein (BMP) pathway during lung morphogenesis and adult lung tissue repair.</b>	Species Dog
"Published figure using CD309 (FLK1) monoclonal antibody (Product # 56-5821-81) in Immunofluorescence"	
Authors: Sountoulidis A,Stavropoulos A,Giaglis S,Apostolou E,Monteiro R,Chuva de Sousa Lopes SM,Chen H,Stripp BR,Mummary C,Andreakos E,Sideras P	

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Immunohistochemistry (Paraffin) (1)

Molecular carcinogenesis	Year 2016
<b>Endothelial cell-anchored tissue factor pathway inhibitor regulates tumor metastasis to the lung in mice.</b>	
"Published figure using CD309 (FLK1) monoclonal antibody (Product # 56-5821-81) in Immunohistochemistry (Paraffin)"	
Authors: Wang J,Xiao J,Wen D,Wu X,Mao Z,Zhang J,Ma D	

Immunohistochemistry (PFA fixed) (1)

PloS one	Year 2013
<b>Activation of the canonical bone morphogenetic protein (BMP) pathway during lung morphogenesis and adult lung tissue repair.</b>	Species Dog
"Published figure using CD309 (FLK1) monoclonal antibody (Product # 56-5821-81) in Immunofluorescence"	
Authors: Sountoulidis A,Stavropoulos A,Giaglis S,Apostolou E,Monteiro R,Chuva de Sousa Lopes SM,Chen H,Stripp BR,Mummary C,Andreakos E,Sideras P	

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- ICC/IF (1)
- Flow (20)
- Array (1)

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