BioLegend
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Product Data Sheet

Alexa Fluor® 488 anti-mouse CD309 (VEGFR2, Flk-1)

Catalog # / Size: 136407 / 25 µg
136408 / 100 µg

Clone: Avas12

Isotype: Rat IgG2a, κ

Immunogen: Murine Flk1 fused to hIgG Fc

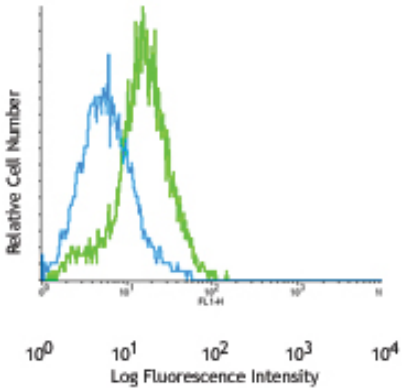
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



bEnd.3 endothelial cells stained with Avas12a1 Alexa Fluor® 488

Applications:

Applications: FC - *Quality tested*
IHC - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.
** Alexa Fluor® 488 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 488 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Avas12 recognizes a different epitope than clone 89B3A5.

Application References: 1. Kataoka H, *et al.* 1997. *Dev. Growth Differ.* 39:729.

Description: CD309 is also known as vascular endothelial growth factor receptor 2 (VEGFR2) and fetal liver kinase-1 (Flk-1). CD309 is a member of the tyrosine protein kinase family that contains a single pass transmembrane receptor with a protein kinase domain and seven immunoglobulin-like domains in the extracellular region. CD309 is expressed at high levels in adult heart, lung, kidney, brain, and skeletal muscle. It's a receptor for VEGF or VEGFC, and plays an important role in the development of vascular endothelial cells, hematopoietic cells, and vascular permeability.

Antigen References:
1. Kaburn N, *et al.* 1997. *Development.* 124:2039
2. Patterson C, *et al.* 1995. *J. Bio. Chem.* 270:23111
3. Nishikawa SI, *et al.* 1998. *Immunity* 8 (6):761
4. Shalaby F, *et al.* 1997. *Cell.* 89 (6):981

Related Products:

Product	Clone	Application
Alexa Fluor® 488 Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC

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