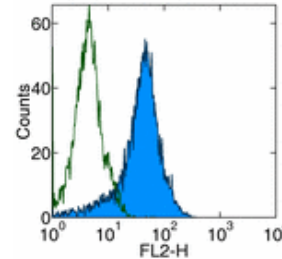


## Product Information

Contents: Biotin anti-mouse Flk-1 (VEGF-R2, VEGFR2, Ly-73)  
Catalog Number: 13-5821  
Sizes: 50 ug, 100 ug, 500 ug  
Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>  
Storage Conditions: Store at 4°C.  
DO NOT FREEZE.  
Clone: Avas12a1  
Isotype: Rat IgG2a, κ



Surface staining of bEnd.3 cells with anti-mouse Flk-1 (Avas12a1) PE. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

### Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
12-5821	PE anti-mouse Flk-1 (VEGF-R2, VEGFR2, Ly-73)	488	575	FC
13-5821	Biotin anti-mouse Flk-1 (VEGF-R2, VEGFR2, Ly-73)	N/A	N/A	FC
14-5821	Affinity Purified anti-mouse Flk-1 (VEGF-R2, VEGFR2, Ly-73)	N/A	N/A	FC IHC WB

### 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.

### Usage

For research use only, not for diagnostic or therapeutic use. The Avas12a1 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

The Avas12a1 antibody has been tested by flow cytometric analysis of *in vitro* differentiated mouse endothelial cells. In brief, mouse ES cells were incubated on collagen IV matrix for 4 days and subsequently stimulated with VEGF under serum free conditions to induce further differentiation. This can be used at less than or equal to 0.5 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### Related Products

Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)  
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)  
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)  
Cat. 13-4321 Biotin Rat IgG2a Isotype Control  
Cat. 12-5821 PE anti-mouse Flk-1 (VEGF-R2, VEGFR2, Ly-73) (clone Avas12a1)  
Cat. 14-5821 Affinity Purified anti-mouse Flk-1 (VEGF-R2, VEGFR2, Ly-73) (clone Avas12a1)

### References

Kataoka, H., N. Takakura, et al. (1997). "Expressions of PDGF receptor alpha, c-Kit and Flk1 genes clustering in mouse chromosome 5 define distinct subsets of nascent mesodermal cells." *Dev Growth Differ* 39(6): 729-40.

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