



## CD309 Antibody [Avas12a1] (PE)

CATALOG NUMBER: 76-992

### Specifications

<b>SPECIES REACTIVITY:</b>	Mouse
<b>TESTED APPLICATIONS:</b>	FACS
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>SPECIFICITY:</b>	The Avas12a1 monoclonal antibody specifically reacts with mouse CD309, also known as fetal liver kinase-1 (Flk-1) or the vascular endothelial growth factor receptor 2 (VEGFR2).
<b>HOST SPECIES:</b>	Rat

### Properties

<b>PURIFICATION:</b>	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
<b>PHYSICAL STATE:</b>	liquid
<b>BUFFER:</b>	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
<b>CONCENTRATION:</b>	0.2 mg/mL
<b>STORAGE CONDITIONS:</b>	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	Rat IgG2a, kappa
<b>CONJUGATE:</b>	PE

### Additional Info

<b>ALTERNATE NAMES:</b>	Flk1, Ly73, Flk-1, Krd-1, VEGFR2, VEGFR-2, sVEGFR-2, 6130401C07, Kdr
<b>OFFICIAL SYMBOL:</b>	Kdr
<b>GENE ID:</b>	16542

### Background

<b>BACKGROUND:</b>	The Avas12a1 monoclonal antibody specifically reacts with mouse CD309, also known as fetal liver kinase-1 (Flk-1) or the vascular endothelial growth factor receptor 2 (VEGFR2). CD309 is a receptor for VEGF and VEGFC and is expressed in endothelial cells in embryonic and adult tissue and a requirement for the development of vascular endothelial and hematopoietic cells.
<b>REFERENCES:</b>	<p>1) Sekine, C., Moriyama, Y., Koyanagi, A., Koyama, N., Ogata, H., Okumura, K., Yagita, H. (2009). Differential regulation of splenic CD8 dendritic cells and marginal zone B cells by Notch ligands. <i>International immunology</i>, 21(3), 295-301.</p> <p>2) Yamaguchi, E., Chiba, S., Kumano, K., Kunisato, A., Takahashi, T., Takahashi, T., Hirai, H. (2002). Expression of Notch ligands, Jagged1, 2 and Delta1 in antigen presenting cells in mice. <i>Immunology letters</i>, 81(1), 59-64.</p> <p>3) Elyaman, W., Bradshaw, E. M., Wang, Y., Oukka, M., Kiviskk, P., Chiba, S., ... Khoury, S. J. (2007). JAGGED1 and delta1 differentially regulate the outcome of experimental autoimmune encephalomyelitis. <i>The Journal of Immunology</i>, 179(9), 5990-5998.</p>

