Category:	Cat. #	Product Name:
Monoclonal Antibodies	mab-SF-C050	mouse VEGFR2

Description:
Monoclonal rat anti-mouse VEGFR2. The VEGFR2 (vascular endothelial growth factor receptor 2) is also known as, CD309, KDR, protein tyrosine kinase receptor flk-1, and fetal liver kinase-1. Flk-1 is a member of the tyrosine protein kinase family, sub-family CSF-1/PDGF, that contains a single pass transmembrane receptor with a protein kinase domain and seven immunoglobulin-like domains in the extracellular region. Flk-1 is expressed at high levels in adult heart, lung, kidney, brain, and skeletal muscle; other tissues express at lower levels. Flk-1 is a receptor for VEGF or VEGFC; ligand binding plays a key role in vascular development and vascular permeability. The 89B3A5 antibody has been shown to be useful for flow cytometry.

Immunogen:
Recombinant mouse FLK-1/VEGFR2

Application:
Flow cytometry, IHC

Species Reactivity:
Mouse. Others not tested.

Presentation:
50 mM Sodium Borate, 150 mM Sodium Chloride, 20% Glycerol and 0.05% Sodium azide, pH 8.0.

Aliquoting Instructions:
Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4°C. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good dilutent to use with most antibodies.

Specificity:
This antibody specifically react with mouse FLK-1/VEGFR-2/KDR and no crossreactivity is seen with human FLK-1 or mouse/human VGFR-1 and VEGF-R3.

Storage:
Store at 2~8°C for short term, freeze under -20°C for long term storage.

Size: 0.2 mg
Clone: DC101
Isotype: IgG1
Host: Rat
Form: Purified
Concentration: 0.5 mg/ml
Units 0n Hand: YES

References:
1. Kaburn, N., et al., Development 124: 2039, 1997.
2.Warner, A J., et al., Biochem. J. (England) 347 (Pt 2): 501–509, 2000.
3. Wen, Y., et al., Biochem. Biophys. Res. Commun. (US) 258 (3): 713–721, 1999.

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Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: Info@antageneinc.com