

Alexa Fluor® 647 anti-mouse CD309 (VEGFR2, Flk-1)

Catalog # / Size: 1209545 / 25 µg
1209550 / 100 µg

Clone: 89B3A5

Isotype: Rat IgG2a, κ

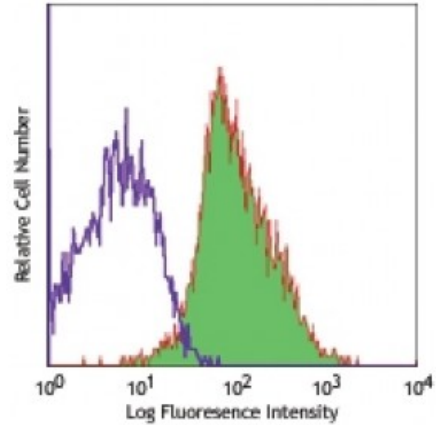
Immunogen: Rat-1 cells transfected with full-length mouse Flk

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.

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

Concentration: 0.5



Mouse FLK-1 transfected cells stained with 89B3A5 Alexa Fluor® 647

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

- Application References:**
1. Kaburn N, *et al.* 1997. *Development* 124:2039.
 2. Hamerlike P, *et al.* 2012. *J Exp Med.* 209:507. [PubMed](#)
 3. Tanaka T, *et al.* 2012. *Blood.* 120:1299. [PubMed](#)
 4. Wu Q, *et al.* 2013. *Eur J Pharmacol.* 707:87. [PubMed](#)
 5. Rignault-Clerc S, *et al.* 2013. *Burns.* 39:694. [PubMed](#)
 6. Ruder C, *et al.* 2014. *PLoS One.* 9:104644. [PubMed](#)

Description: The 89B3A5 antibody recognizes mouse CD309 also known as vascular endothelial growth factor receptor 2, VEGFR2, 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.

- Antigen References:**
1. Patterson C, *et al.* 1995. *J. Biol. Chem.* 270:23111.
 2. Quinn TP, *et al.* 1993. *Proc. Natl. Acad. Sci. USA* 90:7533.