SONY

Product Data Sheet

APC/Fire™ 750 anti-human CX3CR1

Catalog # / Size: 2308155 / 25 tests
2308160 / 100 tests

Clone: 2A9-1

Isotype: Rat IgG2b, κ

Immunogen: CX3CR1-EGFP fusion protein

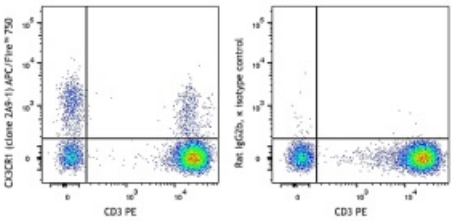
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)

Workshop Number: V T-CD01.18

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 PE and CX3CR1 (clone 2A9-1) APC/Fire™ 750 (left) or rat IgG2b, κ APC/Fire™ 750 isotype control (right).

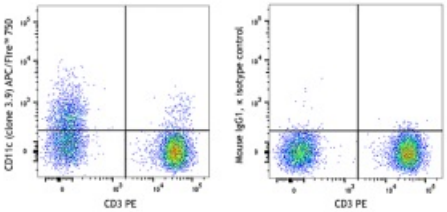
Applications:

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 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining on frozen tissue[4, 5] and formalin-fixed paraffin-embedded immunohistochemical staining[6].



Human peripheral blood lymphocytes were stained with PE anti-human CD3 and APC/Fire™ 750 anti-human CD11c (clone 3.9) (left) or mouse IgG1, κ APC/Fire™ 750 isotype control (right).

Application References:

1. Nishimura M, *et al.* 2002. *J. Immunol.* 168:6173.
2. Nanki T, *et al.* 2002. *Arthritis Rheum.* 46:2878.
3. Kobayashi T, *et al.* 2007. *Inflamm. Bowel Dis.* 13:837.
4. Beziat V, *et al.* 2011. *J. Immunol.* 186:6753. PubMed.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

Description: CX3CR1 is a G-protein-coupled seven-transmembrane chemokine receptor, also called GPR13 or V28. It is expressed on NK cells, T cell subset, monocytes/macrophages, dendritic cells, and some malignant epithelial cells. CX3CL1 (known also as fractalkine and neurotactin) is the ligand of CX3CR1. CX3CL1 is a unique transmembrane molecule with a CX3C-motif chemokine domain and a mucin-like stalk. CX3CL1 is expressed by activated-endothelial cells, neurons, and astrocytes. The interaction of CX3CR1 and its ligand mediatesfirm cell adhesion and migration.

Antigen References:

1. Imai T, *et al.* 1997. *Cell.* 91:521.
2. Fong AM, *et al.* 1998. *J. Exp. Med.* 188:1413.
3. Auffray C, *et al.* 2009. *J. Exp. Med.* 206:595.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.