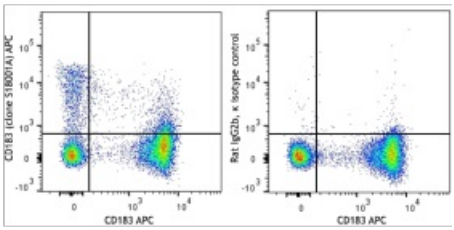
SONY

Product Data Sheet

APC anti-mouse CD183 (CXCR3)

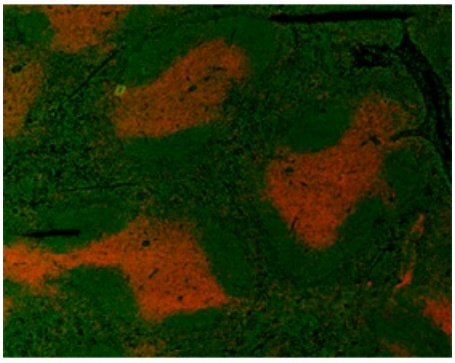
Catalog # / Size:	1379525 / 25 µg 1379530 / 100 µg
Clone:	S18001A
Isotype:	Rat IgG2b, κ
Immunogen:	Mouse CXCR3-transfectants
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	VII 70312
Concentration:	0.2



C57BL/6 splenocytes were stained with CD45R/B220 APC/Cyanine7 and CD183 (CXCR3) (clone S18001A) APC (left) or rat IgG2a, κ APC 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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	QA17A05 blocks clone 145-2C11, QA17A05 activates T cell proliferation similar to the clone 145-2C11. This recombinant antibody clone is derived from clone 145-2C11.



C57BL/6 mouse frozen spleen section was fixed with 4% paraformaldehyde (PFA) for 10 minutes at room temperature and blocked with 5% FBS for 30 minutes at room temperature. Then the section was stained with 10 µg/ml of purified anti-mouse CD3ε (clone KT3.1.1) overnight at 4°C, followed by 2.5 µg/mL of Alexa Fluor® 647 Goat anti-rat IgG (clone Poly4054) (red) for two hours at room temperature. Nuclei were counterstained with DAPI (green). The image was captured by 10X objective.

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Application References:

1. Farber JM. 1997. *J. Leukoc. Biol.* 61(3):\246-57.
2. Bonecchi R, *et al.* 1998. *J. Exp. Med.* 187(1):129-34.
3. Aota K, *et al.* 2018. *J. Oral. Pathol. Med.* 12756.
4. Kim B, *et al.* 2018. *Data. Brief.* 18:518-522.
5. Saahene RO, *et al.* 2018. *Cancer Biother. Radiopharm.* 2450.

Description: CD183, also known as CXCR3, is a member of the C-X-C chemokine family, characterized by a pair of cysteine residues separated by a single amino acid. CXCR3 is a 38 kD seven pass transmembrane receptor coupled to G-protein. It mediates Ca^{2+} mobilization and chemotaxis in response to C-X-C chemokines, such as IP10 (CXCL10), MIG (CXCL9), I-TAC (CXCL11) and PF4 (CXCL4). CXCR3 is expressed primarily on activiated T lymphocytes, NK cells, and some epithelial cells and endothelial cells. It is not expressed on B cells, monocytes, or granulocytes.

Antigen References:

1. Farber JM. 1997. *J. Leukoc. Biol.* 61(3):\246-57.
2. Bonecchi R, *et al.* 1998. *J. Exp. Med.* 187(1):129-34.
3. Aota K, *et al.* 2018. *J. Oral. Pathol. Med.* 12756.
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