SONY

# Product Data Sheet

## Pacific Blue™ anti-mouse CX3CR1

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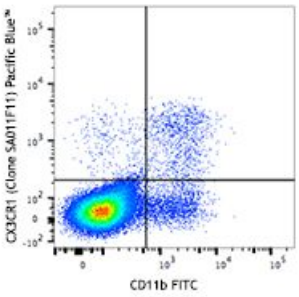
| **Catalog # / Size:** | 1345185 / 25 µg<br>1345190 / 100 µg |
| **Clone:** | SA011F11 |
| **Isotype:** | Mouse IgG2a, κ |
| **Immunogen:** | Mouse CX3CR1-transfected cells |
| **Reactivity:** | Mouse |
| **Preparation:** | The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™. |
| **Formulation:** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide; may contain stabilizer. |
| **Concentration:** | Lot-specific |




C57BL/6 mouse splenocytes were stained with CD11b FITC and CX3CR1 (clone SA011F11) Pacific Blue (top) or mouse IgG2a, κ Pacific Blue™ isotype control (bottom).

## Applications:

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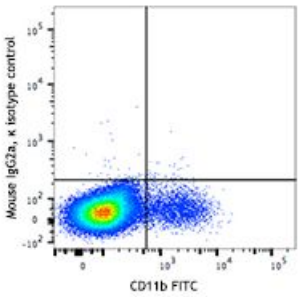
| **Applications:** | Flow Cytometry |
| **Recommended Usage:** | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 microg per million cells in 100 microL volume or 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome. |
| **Application Notes:** | For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 149011) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg). |



**Description:** CX3CR1 is a 40 kD, G-protein coupled receptor, with seven transmembrane regions. CX3CR1 is expressed by resident and alternatively activated macrophages (M2), a subset of monocytes, dendritic cells (DCs), NK cells, a subset of memory T cells, and mast cells. CX3CR1 is involved in cell recruitment during inflammation and participates in cell adhesion and extravasation from blood vessels. Its ligand is CX3CL1, also known as fractalkine or neurotactin. CX3CR1 is also a coreceptor for HIV1 and variations in this gene leads to increased susceptibility to HIV. In the brain, it is expressed by glial cells, which interacts with CX3CL1 expressed by neurons.

**Antigen References:**

1. Ponzetta A, *et al.* 2013. *J. Immunol.* 191:5684.
2. Jacquelin S, *et al.* 2013. *Blood.* 122:674.
3. Garcia JA, *et al.* 2013. *J. Immunol.* 191:1063.
4. Lee YS, *et al.* 2013. *Ce*