SONY

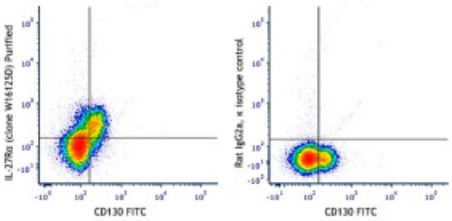
Product Data Sheet

PE anti-rat IL-4

Catalog # / Size:	3159530 / 100 µg 3159525 / 25 µg
Clone:	OX-81
Isotype:	Mouse IgG1, κ
Immunogen:	Recombinant rat IL-4
Reactivity:	Rat
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	V-CD28.05
Concentration:	0.2

Applications:

Applications:	Intracellular Staining for Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per 10^6 cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.



C57BL/6 mouse frozen intestine 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 anti-mouse CD45 (clone S18009D) Alexa Fluor® 647 (red) and anti-mouse/human CD324 (clone DECMA-1) Alexa Fluor® 594 (green) overnight at 4°C. Nuclei were counterstained with DAPI (blue). The image was captured by 10X objective.

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Description: IL-4 is a pleiotropic cytokine that is produced by activated T cells, mast cells and basophils. IL-4 elicits many different biological responses, but has two dominant functions. The first is regulating differentiation of naï ve $CD4^+$ T cell to the Th2 type. Th2 cells produce IL-4, IL-5, IL-10 and IL-13, which tend to favor a humoral immune response while suppressing a cell-mediated immune response controlled by Th1 cells. The second is regulating IgE and IgG1 production by B cells

Antigen References:

1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine Facts Book. Academic Press San Diego.
2. Boulay J, *et al.* 1992. *Curr. Opin. Immunol*. 4:294.
3. Dullens H, *et al.* 1991. *In vivo* 5:567.
4. Paul W. 1991. *Blood* 77:1859.

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