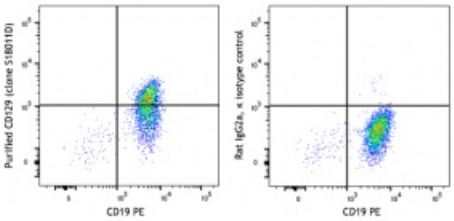
SONY

Product Data Sheet

Purified anti-mouse CD129 (IL-9R)

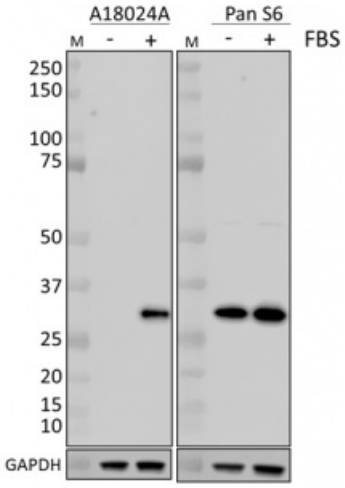
Catalog # / Size:	1394010 / 500 µg
Clone:	S18011D
Isotype:	Rat IgG1, κ
Immunogen:	Mouse IL-9R transfectants
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Workshop Number:	HCDM listed
Concentration:	0.5 mg/mL



C57BL/6 mouse splencoytes were cultured with anti-mouse CD40 antibody for four days. Cells were stained with purified CD129 (clone S18011D) (left) or purified rat IgG1, κ isotype (right), followed by anti-rat IgG APC and CD19 PE.

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 ≤1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Clone A17016B.Rec is a recombinant antibody that is a direct replacement of parental clone A17016B. No changes or modifications were done to the antibody sequence or scaffold.



Total cell lysates (15 µg protein) from serum-starved NIH/3T3 cells treated without (-) or with (+) 20% FBS for 30 minutes were resolved by 4-12% Bis-Tris gel electrophoresis, transferred to a PVDF membrane, and probed with 0.25 µg/mL (1:2000 dilution) of purified anti-RPS6 Phospho (Ser244) antibody (clone A18024A). Proteins were visualized by chemiluminescence detection using HRP goat anti-mouse IgG antibody at a 1:3000 dilution. Equal protein loading was confirmed using a purified anti-RPS6 antibody and Direct-Blot™ HRP anti-GAPDH antibody used at a 1:25000 dilution (lower). Lane M: molecular

weight ladder.

Application References:

1. Kayagaki N, *et al.* 1999. *J. Immunol.* 162:2639. (Block)
2. Uno K, *et al.* 2003. *Blood* 101:3658. (Block)
3. Sato K, *et al.* 2005. *J. Immunol.* 174:4025. (Block)
4. Denny MF, *et al*. 2007. *Blood* 110:2907. (Block)
5. Kemter E, *et al.* 2011. *Xenotransplantation.* 19:40. PubMed

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Description: CD129 is the ligand binding subunit of IL-9 receptor (IL-9R or IL-9Rα). It is a type I transmembrance glycoprotein belonging to the hematopoientin receptor superfamily. The signal transducing subunit is common gamma chain (γc, CD132), which is shared with receptors for IL-2, IL-4, IL-7, and IL-21. The mouse IL-9R has 468aa and is about 52.2 kD. Besides modulating immune response, signals through IL-9 and IL-9R are also invoved in allergy and inflammatory disorders.

Antigen References:

1. Druez C, *et al*. 1990. *J Immunol*. 145:2494-9.
2. Renauld JC, *et al*. 1992. *Proc Natl Acad Sci USA*. 89:5690.
3. Takatsuka S, *et al*. 2018. *Nat Immunol*. 19:1025-34.