SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-IRF4

Catalog # / Size: 3832080 / 100 µg
3832075 / 25 µg

Clone: IRF4.3E4

Isotype: Rat IgG1, κ

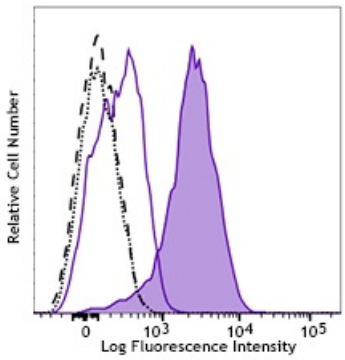
Immunogen: GST fusion protein containing C-terminal of murine IRF4

Reactivity: Human, Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2



PHA-stimulated (3 days) or freshly isolated human peripheral blood lymphocytes were stained with CD4 APC, this fixed and permeabilized with True-Nuclear™ Transcription Factor Buffer Set (Cat. No. 424401). Cells were then stained with IRF4 (clone IRF4.3E4) PerCP/Cy5.5 (open histogram with solid line for fresh cells, filled histogram for stimulated cells) or rat IgG1, κ PerCP/Cy5.5 isotype control (dash line for fresh cell, dot line for stimulated cells). Data shown was gated on $CD4^+$ lymphocyte population.

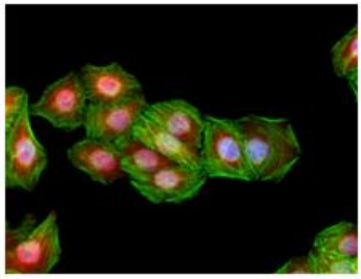
Applications:

Applications: Intracellular Staining for Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining using our nuclear factor staining protocol. For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

Application Notes: **NOTE**: For flow cytometric staining with this clone, True-Nuclear™ Transcription Factor Buffer Set offers improved staining and is highly recommended.



HeLa cells were stained with purified anti-Galectin 3 (M3/38) antibody, followed by staining with DyLight™ 594 conjugated goat anti-mouse IgG (red) antibody. Actin filaments were labeled in green. Nuclei were stained with DAPI (blue).

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Application References:

1. Zheng Y, *et al.* 2009. *Nature* 458:351
2. Yin SY, *et al.* 2011. Exp Cell Res. 317:2210. PubMed

Description: The IRF family consists of at least nine members. IRF4 and IRF8 are highly homologous to each other and also redundant in function. IRF4 is critical for Th2 and Th17 development. Together with TRF8, it plays an essential role in macrophage and dendritic cell development and function. IRF4 is also reported to be essential for pre-B cell development, receptor editing, germinal center reactor and plasma cell differentiation.

Antigen References:

1. Lu R. 2008. *Trends Immunol* 29:487.

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