

APC anti-human IRF1 Antibody

Catalog# / Size	332905 / 25 tests 332906 / 100 tests
Clone	W17068C
Regulatory Status	RUO
Other Names	Interferon regulatory factor 1 (IRF-1)
Isotype	Rat IgG2a, κ
Description	IRF1 is the first identified member of the interferon regulatory transcription factor family. Its expression is induced in response to pathogen infection or the stimulation of several cytokines, including type I and II IFN, IL-1, IL-6, and TNF- α . Upon stimulation, IRF1 is transcriptionally activated by STAT1 and NF κ B transcription factors via the GAS (interferon-gamma-activated sequence) element in the IRF1 promoter. IRF1 plays important roles in mediating immune response during infection and development of T cells and NK cells. In addition to the immunomodulatory functions, IRF1 has also shown to be involved in the regulation of cell cycle progression, tumor suppression, and apoptosis. IRF1-mediated transcription can be repressed by IRF2 through competing for the same binding region on the promoters.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Partial human IRF1 recombinant protein (147-325 a.a.)
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular flow cytometry using our True-Nuclear™ Transcription Factor Staining Protocol. For flow cytometric staining, the suggested use of this reagent is 5 μ L per 10 ⁶ cells in 100 μ L volume. It is highly recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
RRID	AB_3683351 (BioLegend Cat. No. 332905) AB_3683351 (BioLegend Cat. No. 332906)

Antigen Details

Structure	325 amino acids, predicted MW is 37 kD and observed MW is 45 kD. Contains an IRF tryptophan pentad repeat responsible for DNA binding.
Distribution	Nucleus

Function	IRF1 is a transcription factor, regulating expression of IFN and IFN-inducible genes. It is also involved in regulating cell proliferation, apoptosis, tumor suppression, and various immune responses.
Interaction	Forms homodimers. Interacts with p300, MyD88, and PIAS3.
Antigen References	1. Yarlina A, <i>et al.</i> 2008. <i>Nat. Immunol.</i> 9:378. 2. Kano S, <i>et al.</i> 2008. <i>Nat. Immunol.</i> 9:34.
Gene ID	3659

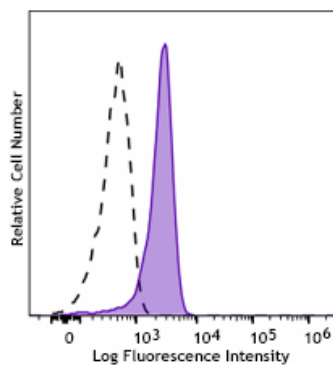
Related Protocols

- [True-Nuclear™ Transcription Factor Staining Protocol for 96-Well U Bottom Plate](#)
- [True-Nuclear™ Transcription Factor Staining Protocol for 5mL Tubes](#)

Other Formats

PE anti-human IRF1 Antibody, Purified anti-human IRF1, APC anti-human IRF1

Product Data



Human peripheral blood mononuclear cells were treated with recombinant human IFN- γ overnight. Cells were then fixed and permeabilized with True-Nuclear™ Transcription Factor Buffer Set (Cat. No. 424401), and intracellularly stained with anti-human IRF1 (clone W17068C) APC (filled histogram) or rat IgG2a, κ APC isotype control (open histogram). Data shown are gated on the monocyte population.

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