

## APC anti-human IRF1 Antibody

<b>Catalog# / Size</b>	332805 / 25 tests 332806 / 100 tests
<b>Clone</b>	W17068A
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Interferon regulatory factor 1 (IRF-1)
<b>Isotype</b>	Rat IgG2a, $\kappa$
<b>Description</b>	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- $\alpha$ . Upon stimulation, IRF1 is transcriptionally activated by STAT1 and NF $\kappa$ 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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Partial human IRF1 recombinant protein (147-325 a.a.)
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">ICFC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">intracellular immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>RRID</b>	AB_3683350 (BioLegend Cat. No. 332805) AB_3683350 (BioLegend Cat. No. 332806)

### Antigen Details

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

<b>Function</b>	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.
<b>Interaction</b>	Forms homodimers. Interacts with p300, MyD88, and PIAS3.
<b>Cell Type</b>	Leukocytes, Macrophages, Monocytes, NK cells, T cells, Th1, Tregs
<b>Biology Area</b>	Adaptive Immunity, Immunology, Innate Immunity, Transcription Factors
<b>Antigen References</b>	1. Yirilina 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.
<b>Gene ID</b>	<a href="#">3659</a>

## Related Protocols

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- [Intracellular Flow Cytometry Staining Protocol](#)

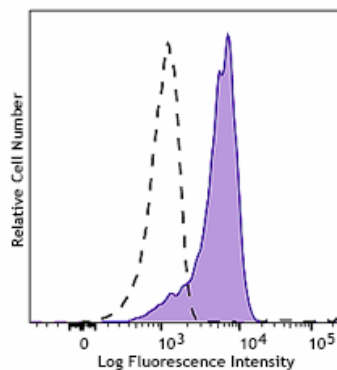
## Other Formats

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

## Product Data

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Human peripheral blood mononuclear cells were treated with recombinant human IFN- $\gamma$  overnight. Cells were fixed and permeabilized with True-Nuclear™ Transcription Factor Buffer Set (Cat. No. 424401), and intracellularly stained with anti-human IRF1 (clone W17068A) APC (filled histogram) or rat IgG2a,  $\kappa$  APC isotype control (open histogram). Data shown are gated on the monocyte population.

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