
Product Data Sheet

Purified anti-mouse IRF5

Catalog # / Size:	1393005 / 25 µg	□	Whole cell extracts (15 µg protein) from C2C12 (reduced expression control), RAW264.7 (positive control), and THP-1 (mouse reactivity control) cells were resolved on a 4-12% Bis-Tris gel, transferred to PVDF and probed with 0.1 µg/mL (1:5000 dilution) of purified anti-IRF5 antibody (clone W16007B) overnight at 4°C. Proteins were visualized by chemiluminescence detection using HRP goat anti-rat IgG antibody (Cat. No. 405405) at a 1:3000 dilution. Direct-Blot™ HRP anti-β-actin antibody (Cat. No. 643807) was used as a loading control at a 1:20000 dilution (lower). Lane M: Molecular weight marker.
Clone:	W16007B		
Isotype:	Rat IgG2a, κ		
Immunogen:	Mouse IRF5 recombinant protein (149-400 a.a.)		
Reactivity:	Mouse		
Preparation:	The antibody was purified by affinity chromatography.		
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide		
Concentration:	0.5 mg/mL		

Applications:

Applications:	Intracellular Staining for Flow Cytometry, Immunoprecipitation	□	C57BL/6 mouse splenocytes were fixed, permeabilized, and then stained with purified anti-mouse IRF5 antibody (clone W16007B) (left) or purified rat IgG2a, κ isotype control (right) followed by polyclonal goat anti-rat IgG secondary antibody PE. Cells were
Recommended Usage:	Each lot of this antibody is quality control tested by western blotting. For western blotting, the suggested use of this reagent is 0.05 - 0.1 µg/mL. For intracellular flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µL volume. For immunoprecipitation, the suggested use of this reagent is 2.5 µg/test. It is recommended that the reagent be titrated for optimal performance for each application.		
Application Notes:	This clone was tested for ICC using RAW264.7 cells fixed with 4% PFA and permeabilized with either Triton X-100 or methanol. While both methods were compatible with IRF5 staining, the signal was weak and did not meet our sensitivity standards.		

Description: The interferon regulatory factor (IRF) family of transcription factors comprises nine members with conserved domains. IRF5 mediates the induction of proinflammatory cytokine, such as IL-6 and TNFα. IRF5 is highly expressed in monocytes, macrophages, B cells, and dendritic cells. Expression of IRF5 is associated with many autoimmune diseases.

Antigen References:

1. Kobayashi S, et al. 2019. *J Immunol.* 203(6):1447-1456.
2. Nie S, et al. 2019. *Clin Immunol.* 207:24-35.
3. Pandey SP, et al. 2019. *Mucosal Immunol.* 12(4):1065.

