

IRF8 Monoclonal Antibody (V3GYWCH), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	V3GYWCH
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573318

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	12 Publications

Product Specific Information

Description: The V3GYWCH monoclonal antibody reacts with human and mouse interferon regulatory factor 8 (IRF8; ICSBP). IRF8 is a 50 kDa transcription factor that plays a critical role in the development of dendritic cells (DC). Specifically, IRF8 is essential in the development and differentiation of plasmacytoid DC (pDC) and CD8a+ DC. IRF8^{-/-} mice are deficient in both pDC and CD8a+ DC populations. CD8a⁻ DC are present in normal numbers in IRF8^{-/-} mice but fail to mature upon Toll-like receptor signaling and are functionally impaired in response to in vivo microbial stimulation. IRF8 deficiency does not affect the frequency or viability of DC precursors and as a result retroviral IRF8 transduction restores pDC development from DC progenitors in IRF8^{-/-} mice.

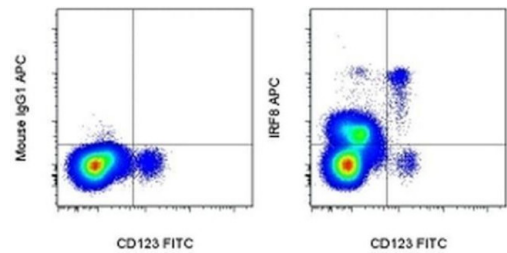
Applications Reported: This V3GYWCH antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This V3GYWCH antibody has been tested by intracellular staining and flow cytometric analysis of normal human peripheral blood cells using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Please refer to Best Protocols: Protocol B: One-step protocol: intracellular (nuclear) proteins located under the Resources Tab online. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IRF8 Monoclonal Antibody (V3GYWCH), APC, eBioscience™



IRF8 Antibody (17-9852-82) in Flow
Surface staining of normal human peripheral blood cells with Anti-Human CD123 FITC (Product # 11-1239-42) followed by intracellular staining with 0.125 µg of Mouse IgG1 K Isotype Control APC (Product # 17-4714-81) (left) or 0.125 µg of Anti-Human/Mouse IRF8 APC (right) using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Cells in the monocyte gate were used for analysis.

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13 References

Immunocytochemistry (1)

<p>Nature communications</p> <p>DNA methylation signatures of Alzheimer's disease neuropathology in the cortex are primarily driven by variation in non-neuronal cell-types.</p> <p>"17-9852-82 was used in Immunocytochemistry-immunofluorescence to highlight the power of utilizing multiple measures of neuropathology to identify epigenetic signatures of AD and the importance of characterizing disease-associated variation in purified cell-types."</p> <p>Authors: Shireby G,Dempster EL,Policicchio S,Smith RG,Pishva E,Chioza B,Davies JP,Burrage J,Lunnon K,Seiler Vellame D,Love S,Thomas A,Brookes K,Morgan K,Francis P,Hannon E,Mill J</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:150</p>
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Flow Cytometry (12)

<p>STAR protocols</p> <p>Assessing in vivo presentation of exogenous antigen in the tumor microenvironment in mice.</p> <p>"17-9852-82 was used in Flow cytometry/Cell sorting to describe a stringent bone marrow chimera system to demonstrate presentation of exogenous antigen that is acquired and processed in the tumor microenvironment."</p> <p>Authors: Nixon BG, Ji L, Li MO</p>	<p>Year 2023</p> <p>Species Mouse</p> <p>Dilution 1:200</p>
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<p>eLife</p> <p>The transcription factor Bach2 negatively regulates murine natural killer cell maturation and function.</p> <p>"17-9852-82 was used in Flow cytometry/Cell sorting to investigate the role of Bach2 in natural killer (NK) cell development, revealing that Bach2 expression peaked in immature CD27+CD11b+ cells, and its deficiency led to increased proportions of terminally differentiated NK cells with enhanced granzyme and cytokine production, as well as improved NK cell-mediated control of tumor metastasis."</p> <p>Authors: Li S,Bern MD,Miao B,Fan C,Xing X,Inoue T,Piersma SJ,Wang T,Colonna M,Kurosaki T,Yokoyama WM</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
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