

IRF5 Monoclonal Antibody (ALYSCLN), eFluor™ 660, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 660, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	ALYSCLN
Conjugate	eFluor™ 660
Excitation/Emission Max	651/668 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574347

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	1 Publication

Product Specific Information

Description: The ALYSCLN monoclonal antibody reacts with human IRF5, a 60-63 kDa member of the interferon regulatory factor family of transcription factors that have diverse roles in host defense against viruses. IRF5 was originally identified as an important regulator of IFN alpha and IFN beta and more recently has been shown to be regulated by these interferons. IRF5 is also involved in induction of pro-inflammatory cytokines including IL-6, IL-12 and TNF alpha in response to TLR signaling. Specifically, it has been shown that MyD88 and TRAF6 interact directly with IRF5 in response to TLR activation and this interaction results in IRF5 nuclear translocation. Additionally, IRF5 has been shown to have both p53-dependent and independent effects in regulation of cell cycle and apoptosis. Genetic polymorphisms in the IRF5 locus have been implicated in many autoimmune diseases including Sjogren's syndrome, inflammatory bowel disease, multiple sclerosis and systemic lupus erythematosus.

Recently, a role for IRF5 in the polarization of classically activated (M1) macrophages has been identified. In these macrophages, IRF5 directly upregulates expression of IL-12 and IL-23 and represses IL-10. Moreover, exogenous expression of IRF5 in M2-polarized (alternatively activated) macrophages induces expression of M1-related cytokines and chemokines. IRF5 is expressed at highest levels in monocytes, macrophages and plasmacytoid dendritic cells, but is also expressed in B cells and T cells.

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

analysis.

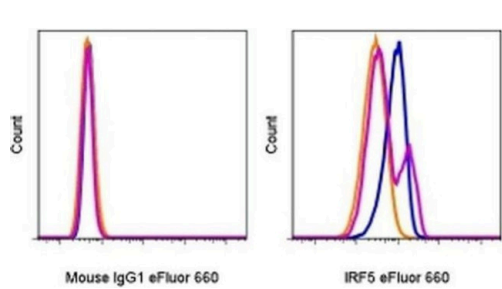
Applications Tested: This ALYSCLN antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of normal human peripheral blood cells using the Fcγ3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. This can be used at 5 µL (0.25 µg) per test. A 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.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochohme.

Excitation: 633-647 nm; Emission: 668 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IRF5 Monoclonal Antibody (ALYSCLN), eFluor™ 660, eBioscience™



IRF5 Antibody (50-9698-42) in Flow
Normal human peripheral blood cells were stained with Anti-Human CD3 PerCP-eFluor® 710 (Product # 46-0036-42), Anti-Human CD11b FITC (Product # 11-0118-42), Anti-Human CD123 PE (Product # 12-1239-42), and Fixable Viability Dye eFluor® 780 (Product # 65-0865-14). Intracellular staining with Mouse IgG1 K Isotype Control eFluor® 660 (Product # 50-4714-82) (left) or Anti-Human IRF5 eFluor® 660 (right) was performed using the Fcγ3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Viable single cells in the CD3+ (orange histogram), CD11b+ (blue histogram), and CD123+ (purple histogram) gates were used for analysis.

2 References

Immunocytochemistry (1)

Molecular medicine reports	Year
Mangiferin inhibits macrophage classical activation via downregulating interferon regulatory factor 5 expression.	2016
"Published figure using IRF5 monoclonal antibody (Product # 50-9698-42) in Immunofluorescence"	
Authors: Wei Z,Yan L,Chen Y,Bao C,Deng J,Deng J	Species
	Human

Flow Cytometry (1)

Molecular medicine reports	Year
Mangiferin inhibits macrophage classical activation via downregulating interferon regulatory factor 5 expression.	2016
"Published figure using IRF5 monoclonal antibody (Product # 50-9698-42) in Immunofluorescence"	
Authors: Wei Z,Yan L,Chen Y,Bao C,Deng J,Deng J	Species
	Human

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