



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at +4C
#14105

IRF-1 (D5E4) XP[®] Rabbit mAb (Alexa Fluor[®] 647 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P10914	Entrez-Gene Id: 3659
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Product Usage Information	Application	Dilution
Storage	Flow Cytometry (Fixed/Permeabilized)	1:50
Specificity/Sensitivity	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Source / Purification	IRF-1 (D5E4) XP [®] Rabbit mAb (Alexa Fluor [®] 647 Conjugate) recognizes endogenous levels of total IRF-1 protein.	
Description	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro261 of human IRF-1 protein.	
Background	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 647 fluorescent dye and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated IRF-1 (D5E4) XP [®] Rabbit mAb #8478.	
Background References	Interferon regulatory factors (IRFs) comprise a family of transcription factors that function within the Jak/Stat pathway to regulate interferon (IFN) and IFN-inducible gene expression in response to viral infection (1). IRFs play an important role in pathogen defense, autoimmunity, lymphocyte development, cell growth, and susceptibility to transformation. The IRF family includes nine members: IRF-1, IRF-2, IRF-9/ISGF3γ, IRF-3, IRF-4 (Pip/LSIRF/ICSAT), IRF-5, IRF-6, IRF-7, and IRF-8/ICSBP. All IRF proteins share homology in their amino-terminal DNA-binding domains. IRF family members regulate transcription through interactions with proteins that share similar DNA-binding motifs, such as IFN-stimulated response elements (ISRE), IFN consensus sequences (ICS), and IFN regulatory elements (IRF-E) (2).	
	1. Taniguchi, T. et al. (2001) <i>Annu Rev Immunol</i> 19, 623-55. 2. Honda, K. and Taniguchi, T. (2006) <i>Nat Rev Immunol</i> 6, 644-58.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human M: Mouse R: Rat
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