3/23/24, 11:26 AM Revision 4

ក្តុ RF-1 (D5E4) XF ម	P [®] Rabbit mAb)		T E	ell Signaling снмогоду [®]
Sto				Orders:	877-616-CELL (2355) orders@cellsignal.com
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#			3 Trask L	ane Danvers Mas	ssachusetts 01923 USA
For Research Use Only. Not for	Use in Diagnostic Proc	edures.			
Applications: Reactiv WB, IP, IHC-Bond, IHC- H M P, IF-IC, FC-FP, C&R	/ity: Sensitivity: R Endogenous	MW (kDa): 45-48	Source/Isotype: Rabbit IgG	UniProt ID: #P10914	Entrez-Gene Id: 3659
Product Usage	The CUT&RUN dilution	was determined	using CUT&RUN Assay	v Kit #86652.	
Information	Application				Dilution
	Western Blotting				1:1000
	Immunoprecipitation				1:50
	IHC Leica Bond				1:50
	Immunohistochemistry	/ (Paraffin)			1:100
	Immunofluorescence (Immunocytochen	nistry)		1:200
	Flow Cytometry (Fixed	l/Permeabilized)			1:50
	CUT&RUN				1:50
Storage	Supplied in 10 mM sodi 0.02% sodium azide. Si	ium HEPES (pH] tore at –20°C. Do	7.5), 150 mM NaCl, 100 o not aliquot the antibody	μg/ml BSA, 50% gly /.	cerol and less than
Specificity / Sensitivity	IRF-1 (D5E4) XP [®] Rab	bit mAb recognize	es endogenous levels of	f total IRF-1 protein.	
Source / Purification	Monoclonal antibody is residues surrounding P	produced by imm ro261 of human I	nunizing animals with a s RF-1 protein.	synthetic peptide coi	rresponding to
Background	Interferon regulatory fac Jak/Stat pathway to reg infection (1). IRFs play growth, and susceptibili 9/ISGF3y, IRF-3, IRF-4 homology in their amino interactions with proteir (ISRE), IFN consensus	ctors (IRFs) comp gulate interferon (an important role ity to transformati (Pip/LSIRF/ICSA b-terminal DNA-b ns that share simi sequences (ICS)	prise a family of transcrip IFN) and IFN-inducible of in pathogen defense, a on. The IRF family inclu AT), IRF-5, IRF-6, IRF-7, inding domains. IRF fan lar DNA-binding motifs,), and IFN regulatory ele	otion factors that fun- gene expression in ru utoimmunity, lympho des nine members: and IRF-8/ICSBP. A nily members regulat such as IFN-stimula ments (IRF-E) (2).	ction within the esponse to viral ocyte development, cell IRF-1, IRF-2, IRF- All IRF proteins share te transcription through ted response elements
	The IRF-1 transcription elements of the IFN-β g with IFN or other cytokin sites, one in the DNA-b (amino acids 219-231) help regulate IRF-1 actin mediated differentiation cells by repression of its	factor was origin gene (3). IRF-1 is nes. IRF-1 is seri inding domain (au (4). Mutation ana ivity. Tyrosine pho of myeloid cell lii s transcriptional a	ally identified as a regul widely expressed and u ne-phosphorylated by ca mino acids 138-150) and lysis of the latter site sup osphorylation has also b nes (5). C-terminal SUM activity (6).	ator of virus-inducibl pregulated by viral in asein kinase II (CKII) d another in the trans ggests that these ph een shown to be imp IOylated IRF-1 inhibl	e enhancer-like nfection or stimulation) at two clustered sactivation domain osphorylation sites portant in IFN-γ- its apoptosis in tumor
Background References	1. Taniguchi, T. et al. (2 2. Honda, K. and Tanigu 3. Fujita, T. et al. (1988) 4. Lin, R. and Hiscott, J 5. Kautz, B. et al. (2001 6. Park, J. et al. (2007)	001) Annu Rev Ir uchi, T. (2006) Na) EMBO J 7, 3397 . (1999) Mol Cell .) J Biol Chem 27 Proc Natl Acad S	nmunol 19, 623-55. at Rev Immunol 6, 644-5 7-405. Biochem 191, 169-80. 6, 37868-78. aci USA 104, 17028-33.	8.	
Species Reactivity	Species reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., v	western blot).

3/23/24, 11:26 AM	IRF-1 (D5E4) XP® Rabbit mAb (#8478) Datasheet Without Images Cell Signaling Technology			
Western Blot Buffer	 IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TB 0.1% Tween® 20 at 4°C with gentle shaking, overnight. WB: Western Blotting IP: Immunoprecipitation IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) C&R: CUT&RUN 			
Applications Key				
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 			
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