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IRF-3 (D6I4C) XP[®] Rabbit mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, W-S, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 50-55	Source/Isotype: Rabbit IgG	UniProt ID: #Q14653	Entrez-Gene Id: 3661	
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation Immunofluorescence (Immunocytochemistry)			Dilution 1:1000 1:50 - 1:250 1:50 1:200 - 1:800		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			ol and less than		
Specificity/Sensitivity		IRF-3 (D6I4C) XP $^{ extsf{@}}$ Rabbit mAb recognizes endogenous levels of total IRF-3 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant human IRF-3 protein.					
Background		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).					
		immune response (1-4 phosphorylation of IRI containing IRF-3-bindi residues (between 385 promotes DNA binding a pathway that include TBK1 (6,7). IRF-3 is pho	In unstimulated F-3 and leads to its ng sites. Phosphor and 405), leading and transcription es activation of Toll- osphorylated at Ser	ritical role in controlling cells, IRF-3 is present in t translocation to the nucl ylation of IRF-3 occurs at to its association with th al activity (5). During infe -like receptors and a kina 396 following viral infect se events likely play a ro	the cytoplasm. Viral leus where it activa a cluster of C-term e p300/CBP coactiv ection, IRF-3 is likely ase complex that in cion, expression of v	I infection results in tes promoters ninal Ser and Thr vator protein that y activated through icludes IKKɛ and viral nucleocapsid,	
Background Re	eferences	3. Hiscott, J. et al. (199 4. Kim, T.Y. et al. (2003) 5. Yoneyama, M. et al. 6. Fitzgerald, K.A. et al.	uchi, T. (2006) <i>Nat</i> 9) <i>J Interferon Cyto</i>) <i>J Biol Chem</i> 278, 1 (2002) <i>J Interferon</i> . (2003) <i>Nat Immur</i> itov, R. (2003) <i>Curr</i>	<i>Rev Immunol</i> 6, 644-58. <i>kine Res</i> 19, 1-13. 5272-8. <i>Cytokine Res</i> 22, 73-6. <i>tol</i> 4, 491-6. <i>Opin Immunol</i> 15, 396-4	01.		
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	d application (e.g.,	western blot).	
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivit	ту Кеу	H: Human Mk: Monke	у				

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