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## Phospho-IRF-3 (Ser396) (D6O1M) Rabbit



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<b>Applications:</b> W, IP, IF-IC, FC-FP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 45-55	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q14653	Entrez-Gene Id: 3661	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)			<b>Dilution</b> 1:1000 1:50 1:100 - 1:400 1:50 - 1:200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>					
		For a carrier free (BSA and azide free) version of this product see product #61166.					
Specificity/Sensit	ivity	Phospho-IRF-3 (Ser396) (D6O1M) Rabbit mAb recognizes endogenous levels of IRF-3 protein only when phosphorylated at Ser396. Non-specific Golgi background may be observed by immunofluorescence in mouse cells.					
Source / Purificat	ion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser396 of human IRF-3 protein.			prresponding to		
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 IRF containing IRF-3-bindir threonine residues (be protein that promotes activated through a pa includes IKKɛ and TBK	). In unstimulated of -3 and leads to its ing sites. Phosphory tween 385 and 405 DNA binding and t thway that include 1 (6,7). IRF-3 is phos	ritical role in controlling cells, IRF-3 is present in t translocation to the nuc lation of IRF-3 occurs at ) leading to its associati ranscriptional activity (5 s activation of Toll-like re sphorylated at Ser396 fc RNA treatment. These ev	the cytoplasm. Viral leus where it activa a cluster of C-term on with the p300/Cl ). During infection, eceptors and of a ki llowing viral infecti	infection results in tes promoters inal serine and BP coactivator IRF-3 is likely nase complex that on, expression of	
Background Refe	rences	3. Hiscott, J. et al. (1999 4. Kim, T.Y. et al. (2003) 5. Yoneyama, M. et al. 6. Fitzgerald, K.A. et al.	uchi, T. (2006) Nat i 9) J Interferon Cytol J Biol Chem 278, 1 (2002) J Interferon (2003) Nat Immun itov, R. (2003) Curr	Rev Immunol 6, 644-58. kine Res 19, 1-13. 5272-8. Cytokine Res 22, 73-6. ol 4, 491-6. Opin Immunol 15, 396-4	.01.		
Species Reactivit	y	Species reactivity is de	termined by testing	j in at least one approve	d application (e.g.,	western blot).	
Western Blot Buf	fer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a		membrane with diluted haking, overnight.	primary antibody ir	1 5% w/v BSA, 1X	

Applications Key	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat	
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