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Phospho-IRF-3 (Ser396) (4D4G) Rabbit mAb



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

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 45-55	Source/Isotype: Rabbit IgG	UniProt ID: #Q14653	Entrez-Gene Id: 3661	
Product Usage Information	1	Application Western Blotting			Dilution 1:1000		
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. Do not aliquot the antibody.				ol and less than	
Specificity/Sensitivity		Phospho-IRF-3 (Ser396) (4D4G) Rabbit mAb detects endogenous levels of IRF-3 when phosphorylated at Ser396.					
Species predict based on 100% homology	ted to react sequence	Monkey, Pig					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser396 of human IRF-3.					
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 (1-2 phosphorylation of IR containing IRF-3-bindi threonine residues (be protein that promotes activated through a pa includes IKKɛ and TBK	4). In unstimulated F-3 and leads to its ng sites. Phosphor etween 385 and 40! 5 DNA binding and athway that include 1 (6,7). IRF-3 is pho	critical role in controlling cells, IRF-3 is present in translocation to the nuc ylation of IRF-3 occurs a 5) leading to its associati transcriptional activity (5 es activation of Toll-like r sphorylated at Ser396 for RNA treatment. These ev	the cytoplasm. Vira leus where it activa t a cluster of C-term on with the p300/C During infection, eceptors and of a ki ollowing viral infecti	Infection results in tes promoters inal serine and BP coactivator IRF-3 is likely inase complex that on, expression of	
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	juch ⁱ , T. (2006) <i>Nat</i> 9) <i>J. Interferon Cyto</i>) <i>J. Biol. Chem</i> . 278, (2002) <i>J. Interferor</i> . (2003) <i>Nat. Immu</i> iitov, R. (2003) <i>Curr.</i>	<i>Rev Immunol</i> 6, 644-58. okine Res. 19, 1-13. , 15272-15278. a Cytokine Res. 22, 73-76 nol. 4, 491-496. Opin. Immunol. 15, 396			
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ir	ו 5% w/v BSA, 1X	
Applications K	ey	W: Western Blotting					

Cross-Reactivity Key	H: Human M: Mouse
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