## Phospho-IRF-7 (Ser471/472) Antibody



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

Applications: W	Reactivity: H	<b>Sensitivity:</b> Transfected Only	<b>MW (kDa):</b> 65	Source/Isotype: Rabbit	UniProt ID: #Q92985	Entrez-Gene Id: 3665
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-IRF-7 (Ser471/472) Antibody detects transfected levels of IRF-7 when phosphorylated at Ser471 and 472.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser471/472 of human IRF-7 protein. Antibodies were purified by protein A and peptide affinity chromatography.				
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/ISGF3\(\gamma\), 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).				
		virus, LPS, and IFN-α (3 viral infection (6-8). Lik	3-5). IRF-7 plays an e IRF-3, IRF-7 is re	3, is preferentially expre essential role in the ind gulated at multiple serin r nuclear translocation,	uction of type I inte e phosphorylation	rferon in response sites near its
Background References		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. 3. Au, W.C. et al. (1998) <i>J Biol Chem</i> 273, 29210-7. 4. Wathelet, M.G. et al. (1998) <i>Mol Cell</i> 1, 507-18. 5. Marié, I. et al. (1998) <i>EMBO J</i> 17, 6660-9. 6. Sato, M. et al. (2000) <i>Immunity</i> 13, 539-48. 7. Honda, K. et al. (2005) <i>Nature</i> 434, 772-7. 8. Colina, R. et al. (2008) <i>Nature</i> 452, 323-8. 9. Lin, R. et al. (2000) <i>J Biol Chem</i> 275, 34320-7. 10. Yang, H. et al. (2003) <i>J Biol Chem</i> 278, 15495-504. 11. Caillaud, A. et al. (2005) <i>J Biol Chem</i> 280, 17671-7.				
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Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot 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 Key W: Western Blotting

Cross-Reactivity Key H: Human

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