

## Phospho-IRF-3 (Ser379) (E6F7Q) Rabbit



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

Applications: W, IP	Reactivity: M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 45	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P70671	Entrez-Gene Id 54131
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100	
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.				
Specificity/Sensitivity		Phospho-IRF-3 (Ser379) (E6F7Q) Rabbit mAb recognizes endogenous levels of IRF-3 protein only when phosphorylated at Ser379 in mice (equivalent to Ser386 of human IRF-3). This antibody cross-reacts wtih a 75 kDa protein of unknown origin.				
Species predict based on 100% homology		Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser379 of mouse IRF-3 protein.				
Background		Jak/Stat pathway to re infection (1). IRFs play development, cell gro IRF-1, IRF-2, IRF-9/ISG proteins share homol transcription through	gulate interferon (l an important role wth, and susceptib F3γ, IRF-3, IRF-4 (Pi ogy in their amino- interactions with p	orise a family of transcrip (FN) and IFN-inducible g in pathogen defense, au lility to transformation. T p/LSIRF/ICSAT), IRF-5, IR terminal DNA-binding do roteins that share simila I consensus sequences (	ene expression in r itoimmunity, lymph he IRF family incluc F-6, IRF-7, and IRF-8 omains. IRF family i ir DNA-binding mot	esponse to viral ocyte les nine members: B/ICSBP. All IRF members regulate ifs, such as IFN-
		immune response (1-4 phosphorylation of IR containing IRF-3-bind) and threonine residue protein that promotes activated through a pincludes IKKE and TBK	4). In unstimulated F-3 and leads to its ing sites. Phosphor is (between 385 and 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 nucylation of IRF-3 occurs ad 405), leading to its ass transcriptional activity (5 es activation of Toll-like resphorylated at Ser396 fr	the cytoplasm. Vira leus, where it active t a cluster of carboo ociation with the pa b). During infection, eceptors and of a k bllowing viral infect	I infection results in ates promoters cyl-terminal serine 300/CBP coactivator IRF-3 is likely inase complex that ion, expression of
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. Hiscott, J. et al. (1999) <i>J Interferon Cytokine Res</i> 19, 1-13.  4. Kim, T.Y. et al. (2003) <i>J Biol Chem</i> 278, 15272-8.  5. Yoneyama, M. et al. (2002) <i>J Interferon Cytokine Res</i> 22, 73-6.  6. Fitzgerald, K.A. et al. (2003) <i>Nat Immunol</i> 4, 491-6.  7. Kopp, E. and Medzhitov, R. (2003) <i>Curr Opin Immunol</i> 15, 396-401.  8. Servant, M.J. et al. (2003) <i>J Biol Chem</i> 278, 9441-7.				

**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 IP: Immunoprecipitation

Cross-Reactivity Key M: Mouse

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