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Phospho-Stat2 (Tyr690) Antibody



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 113	Source/Isotype: Rabbit	UniProt ID: #P52630	Entrez-Gene Id 6773
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-Stat2 Antibody detects endogenous levels of human Stat2 only when phosphorylated at Tyr690. The antibody does not significantly cross-react with corresponding phospho-tyrosine sites on other Stat proteins.				
Species predicted to react based on 100% sequence homology		Rat, Bovine				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr690 of human Stat2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Stat2 (113 kDa), originally purified from the nuclei of alpha-interferon-treated cells, is critical to the transcriptional responses induced by type I interferons, IFN-alpha/beta (1,2). Knockout mice with a targeted disruption of Stat2 have higher susceptibility to viral infection and altered responses to type I interferons (3). Stat2 is rapidly activated by phosphorylation at Tyr690 in response to stimulation by IFN-alpha/beta via associations with receptor-bound Jak kinases (4). Unlike other Stat proteins, Stat2 does not form homodimers. Instead, activated Stat2 forms a heterodimer with Stat1 and translocates to the nucleus. There, it associates with the DNA-binding protein p48 and forms the transcriptional activator complex, interferon-stimulated gene factor 3 (ISGF3), promoting transcription from the ISRE (5).				
Background References		 Fu, X.Y. et al. (1992) Proc Natl Acad Sci U S A 89, 7840-3. Ihle, J.N. (2001) Curr Opin Cell Biol 13, 211-7. Park, C. et al. (2000) Immunity 13, 795-804. Improta, T. et al. (1994) Proc Natl Acad Sci U S A 91, 4776-80. Horvath, C.M. et al. (1996) Mol Cell Biol 16, 6957-64. 				
Species Reactivity		Species reactivity is d	etermined by testin	g in at least one approve	ed 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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