Phospho-Stat2 (Tyr690) (D3P2P) Rabbit mAb					ell Signaling снмогоду [®]	
Stor				Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#			3 Trask L	ane Danvers Ma	ssachusetts 01923 USA	
For Research Use Only. No	ot for Use in Diagnostic Pr	ocedures.				
Applications: F WB, IF-IC, FC-FP	Reactivity: Sensitivity: H R Endogenous		Source/Isotype: Rabbit IgG	UniProt ID: #P52630	Entrez-Gene Id: 6773	
Product Usage	The CUT&RUN dilu	The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.				
Information	Application	Application			Dilution	
	Western Blotting	Western Blotting			1:1000	
	Immunofluorescen	Immunofluorescence (Immunocytochemistry)			:50 - 1:100	
	Flow Cytometry (Fi	Flow Cytometry (Fixed/Permeabilized)			:100 - 1:400	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For a carrier free (B	SA and azide free) v	ersion of this product se	e product #23078.		
Specificity / Sensitivi		Phospho-Stat2 (D3P2P) Rabbit mAb recognizes endogenous levels of Stat2 protein only when phosphorylated at Tyr690.				
Source / Purification	Monoclonal antibody to residues surround		nunizing animals with a s n Stat2 protein.	synthetic phospho-p	eptide corresponding	
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 nuclei 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).					out mice with a sponses to type I o stimulation by IFN- roteins, Stat2 does not locates to the nucleus. activator complex,	
Background Referen	2. Ihle, J.N. (2001) C 3. Park, C. et al. (20 4. Improta, T. et al. (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 o	determined by testing	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, 12 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key	X: Xenopus Z: zebra	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected				
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