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Phospho-Stat2 (Tyr690) (D3P2P) Rabbit mAb (Alexa Fluor® 488 Conjugate)

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H R	Endogenous	Rabbit IgG	#P52630	6773
Product Usage Information	Application				Dilution
	Flow Cytometry (Fixed/Permeabilized)				1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensitivity	Phospho-Stat2 (Tyr690) (D3P2P) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of Stat2 protein only when phosphorylated at Tyr690.				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phospho-peptide corresponding to residues surrounding Tyr690 of human Stat2 protein.				
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Stat2 (Tyr690) (D3P2P) Rabbit mAb #88410.				
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	1. Fu, X.Y. et al. (1992) <i>Proc Natl Acad Sci U S A</i> 89, 7840-3. 2. Ihle, J.N. (2001) <i>Curr Opin Cell Biol</i> 13, 211-7. 3. Park, C. et al. (2000) <i>Immunity</i> 13, 795-804. 4. Improt, T. et al. (1994) <i>Proc Natl Acad Sci U S A</i> 91, 4776-80. 5. Horvath, C.M. et al. (1996) <i>Mol Cell Biol</i> 16, 6957-64.				

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

Applications Key **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key **H:** Human **R:** Rat

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