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

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

<b>Applications:</b> FC-FP	<b>Reactivity:</b> H R	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P52630	<b>Entrez-Gene Id:</b> 6773
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### Product Usage Information

#### Application

Flow Cytometry (Fixed/Permeabilized)

#### Dilution

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) *Proc Natl Acad Sci U S A* 89, 7840-3.
2. Ihle, J.N. (2001) *Curr Opin Cell Biol* 13, 211-7.
3. Park, C. et al. (2000) *Immunity* 13, 795-804.
4. Improta, T. et al. (1994) *Proc Natl Acad Sci U S A* 91, 4776-80.
5. Horvath, C.M. et al. (1996) *Mol Cell Biol* 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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