Store at -20C

Phospho-Stat2 (Tyr690) Antibody



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Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 113	Source: Rabbit	UniProt ID: #P52630	Entrez-Gene Id 6773	
Product Usage Information	Ар	Application			Dilution		
	We	estern Blotting		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 / Sens	The	Phospho-Stat2 Antibody detects endogenous levels of human Stat2 only when phospho The antibody does not significantly cross-react with corresponding phospho-tyrosine sit proteins.				,	
Species predicte react based on 1		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 IFNalpha/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).

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

WB: Western Blotting

Cross-Reactivity Key

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 Dq: dog Pq: piq Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

Phospho-Stat2 (Tyr690) Antibody (#4441) Datasheet Without Images Cell Signaling Technology

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