

## 1597

## **Stat2 Antibody**



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

<b>Applications:</b> W	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 130	<b>Source/Isotype:</b> Rabbit	UniProt ID: #Q9WVL2	Entrez-Gene Id: 20847
Product Usage Information	<b>!</b>	<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Stat2 Antibody detects endogenous levels of total mouse Stat2 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of mouse 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		<ol> <li>Fu, X.Y. et al. (1992) Proc Natl Acad Sci U S A 89, 7840-3.</li> <li>Ihle, J.N. (2001) Curr Opin Cell Biol 13, 211-7.</li> <li>Park, C. et al. (2000) Immunity 13, 795-804.</li> <li>Improta, T. et al. (1994) Proc Natl Acad Sci U S A 91, 4776-80.</li> <li>Horvath, C.M. et al. (1996) Mol Cell Biol 16, 6957-64.</li> </ol>				
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

W: Western Blotting

**Cross-Reactivity Key** 

M: Mouse

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