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**anti-Stat2**

Cat #: HM1354  
Rabbit polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

Stats (signal transducers and activators of transcription) are transcription factors activated by peptide hormones, growth factors and cytokines, particularly interferons. STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. Stat1 and Stat2 are induced by IFN- $\alpha$  and form a heterodimer which is part of the ISGF3 transcription factor complex. Stat2 acts as a transactivator, but lacks the ability to bind DNA directly. Transcription adaptor P300/CBP (EP300/CREBBP) has been shown to interact specifically with Stat2, which is thought to be involved in the process of blocking IFN- $\alpha$  response by adenovirus.

**SPECIFICITY**

This antibody specifically recognizes Stat2 of human, mouse and rat origin. The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

Molecular Weight of Stat2: 113 kDa.

**IMMUNOGEN**

A peptide at the carboxy terminus of human Stat2 p113.

**STORAGE**

This antibody is stable for 12 months when stored at 2-8°C.

**REFERENCES**

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3. Bluysen, H.A. and Levy, D.E. (1997) Stat2 is a transcriptional activator that requires sequence-specific contacts provided by stat1 and p48 for stable interaction with DNA. *J. Biol. Chem.* 272, 4600-4605.
4. Mowen, K. and David, M. (1998) Role of the STAT1-SH2 domain and STAT2 in the activation and nuclear translocation of STAT1. *J. Biol. Chem.* 273, 30073-30076.

5. Gotoh, B., Takeuchi, K., Komatsu, T. and Yokoo, J. (2003) The STAT2 activation process is a crucial target of Sendai virus C protein for the blockade of alpha interferon signaling. *J. Virol.* 77, 3360-3370.

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**Hypromatrix, Inc.**  
100 Barber Avenue  
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USA

Tel: 508-856-7900  
Fax: 508-302-0748  
Email: [contact@hypromatrix.com](mailto:contact@hypromatrix.com)  
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