
anti-Tyk 2

Cat #: HM1388
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Tyk 2 belongs to the family of non-receptor janus tyrosine kinases, which regulate a spectrum of cellular functions occurring downstream of activated cytokine receptors. Upon stimuli by interferons and cytokines, STAT transcription factors are recruited to the cytokine receptor where Tyk2 is associated. Tyk2 phosphorylates STATs, which subsequently dimerize, translocate to the nucleus, and bind to cis elements upstream of target gene promoters to regulate transcription.

SPECIFICITY

This antibody reacts with Tyk 2 of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry.

Recommended dilution for Western blot analysis: 1:1000.
Molecular weight of Tyk 2: 140 kDa. Western blotting positive control: NIH/3T3 cell lysate.

IMMUNOGEN

Recombinant protein corresponding to the carboxy terminus of human Tyk 2.

STORAGE

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

REFERENCES

1. Kotenko, S.V. and Pestka, S. 2000. Jak-Stat signal transduction pathway through the eyes of cytokine class II receptor complexes. *Oncogene* 19: 2557-2565.
2. Sanceau, J., Hiscott, J., Delattre, O., and Wietzerbin, J. 2000. IFN-β induces serine phosphorylation of Stat-1 in Ewing's sarcoma cells and mediates apoptosis via induction of IRF-1 and activation of caspase-7. *Oncogene* 19: 3372-3383.
3. Murakami, Y., Nakano, S., Niho, Y., Hamasaki, N., and Izuhara, K. 1998. Constitutive activation of Jak-2 and Tyk-2 in a v-Src-transformed human gallbladder adenocarcinoma cell line. *J. Cell Physiol.* 175: 220-228.
4. Subramaniam, S.V., Cooper, R.S., and Adunyah, S.E. 1999. Evidence for the involvement of JAK/STAT pathway in the signaling mechanism of interleukin-17. *Biochem. Biophys. Res. Commun.* 262: 14-19.
5. Negoro, S., Kunisada, K., Tone, E., Funamoto, M., Oh, H., Kishimoto, T., and Yamauchi-Takahara, K. 2000. Activation of JAK/STAT pathway transduces cytoprotective signal in rat acute myocardial infarction. *Cardiovasc. Res.* 47: 797-805.

6. Bianchi, M., Meng, C., and Ivashkiv, L.B. 2000. Inhibition of IL-2-induced Jak-STAT signaling by glucocorticoids. *Proc. Natl. Acad. Sci. USA* 97: 9573-9578.
7. Ragimbeau, J., Dondi, E., Alcover, A., Eid, P., Uze, G. and Pellegrini, S. (2003) The tyrosine kinase Tyk2 controls IFNAR1 cell surface expression. *EMBO J.* 22, 537-547

PRODUCT FROM HYPROMATRIX, INC.**A. AntibodyArray™s:**

1. Signal Transduction AntibodyArray™
Catalog Number HM3000
2. Apoptosis AntibodyArray™
Catalog Number HM4000
3. Cell Cycle AntibodyArray™
Catalog Number HM5000

B. Staining AntibodyArray™s

1. Staining AntibodyArray™ I
Catalog Number HM8100
2. AntibodyArray Staining Apparatus
Catalog Number HM8000

C. Antibodies**1. HRP-conjugated antibodies**

- anti-phosphotyrosine
Catalog Number HM2040
- anti-phosphoserine
Catalog Number HM2070
- anti-phosphothreonine
Catalog Number HM2090

and more...

2. Primary antibodies

Hypromatrix offers a variety of high quality antibodies. For a complete list of antibodies and their specificities, please visit our web site at www.hypromatrix.com.

CONTACT

Hypromatrix, Inc.
100 Barber Avenue
Worcester, MA 01606
USA

Tel: 508-856-7900
Fax: 508-302-0748
Email: contact@hypromatrix.com
Web: www.hypromatrix.com