Polyclonal Anti-Signal Transducer Activator of transcription 1 (P91), *STAT1* (P91) (Sepharose Bead Conjugate)

Catalogue No. PA1075-S

Lot No. 03A01

Ig type: rabbit

IgG **Size:** 100µg/vial

Specificity

Human, mouse, rat. No cross reactivity with other proteins.

Recommended application

Immunoprecipitation(IP)

Immunogen

A peptide mapping at the C-terminus of human stat1(P91), identical to the related mouse and rat sequence.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN_3a_3 preservative.

Storage

Store at 4˚C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

Chen et al. (1998) determined the crystal structure of the DNA complex of a 67-kD core fragment of the STAT1 homodimer, lacking only the N-domain and the C-terminal transcriptional activation domain, at 2.9-angstrom resolution. Phosphorylation of Signal Transducer and Activator of transcription 1(STAT 1) was also decreased in rheumatoid arthritis lymphocytes. The transcription factor signal transducer and activator of transcription-1 (STAT1) plays a key role in immunity against mycobacterial and viral infections. Activation of the signal transducers and activators of transcription (STAT) pathway is important in fibroblast growth factor (FGF) modulation of chondrocyte proliferation and endochondral bone formation during embryogenesis.

REFERENCE

1. Chapgier, A.; Boisson-Dupuis, S.; Jouanguy, E.; Vogt, G.; Feinberg, J.; Prochnicka-Chalufour, A.; Casrouge, A.; Yang, K.; Soudais, C.; Fieschi, C.; Santos, O. F.; Bustamante, J.; and 10 others : Novel STAT1 alleles in otherwise healthy patients with mycobacterial disease. *PLoS Genet.* 2: e131, 2006. Note: Electronic Article

2. Ihle, J. N. : STATs: signal transducers and activators of transcription. *Cell* 84: 331-334, 1996. 3. Xiao, L.; Naganawa, T.; Obugunde, E.; Gronowicz, G.; Ornitz, D. M.; Coffin, J. D.; Hurley, M. M. : Stat1 controls postnatal bone formation by regulating fibroblast growth factor signaling in osteoblasts. *J. Biol. Chem.* 279: 27743-27752, 2004.

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