



Product Information Sheet

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

Catalogue No. PA1075-M

Immunogen

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

Lot No. 03A01

Ig type: rabbit IgG

Purity

Immunogen affinity purified.

Size: 200µl

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Storage

Store at 4°C for frequent use.

Recommended application

Immunoprecipitation(IP)

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation.

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. Chappier, 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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