



Polyclonal Anti-STAT3 (Sephacrose Bead Conjugate)

Catalogue No. PA1108-S

Lot No. 08F01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

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

Recommended application

(Immunoprecipitation(IP))

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human STAT3, identical to the related rat and mouse sequence.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃a₃ 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

The transcription factor, signal transducer and activator of transcription-3 (STAT-3) is the most pleiotropic member of the signal transducer and activator of transcription (STAT) family of transcription factors and mediates pivotal responses for the cytokine family. The mouse STAT3 gene contains 24 exons and spans 30 kb. The translation initiation codon is in exon 2, and the stop codon is in exon 24. STAT3 is mapped to 17q21, it contributes to various physiological processes. Hepatic STAT-3 signaling is thus essential for normal glucose homeostasis and may provide new therapeutic targets for diabetes mellitus.

REFERENCE

1. Bhattacharya, S.; Schindler, C. : Regulation of Stat3 nuclear export. *J. Clin. Invest.* 111: 553-559, 2003.
2. Miyoshi, K.; Cui, Y.; Riedlinger, G.; Robinson, P.; Lehoczy, J.; Zon, L.; Oka, T.; Dewar, K.; Hennighausen, L. : Structure of the mouse Stat 3/5 locus: evolution from Drosophila to zebrafish to mouse. *Genomics* 71: 150-155, 2001.
3. Inoue, H.; Ogawa, W.; Ozaki, M.; Haga, S.; Matsumoto, M.; Furukawa, K.; Hashimoto, N.; Kido, Y.; Mori, T.; Sakaue, H.; Teshigawara, K.; Jin, S.; Iguchi, H.; Hiramatsu, R.; LeRoith, D.; Takeda, K.; Akira, S.; Kasuga, M. : Role of STAT-3 in regulation of hepatic gluconeogenic genes and carbohydrate metabolism in vivo. *Nature Med.* 10: 168-174, 2004.

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