



## Product Information Sheet

### Polyclonal Anti-STAT3 (Magnetic Bead Conjugate)

<b>Catalogue No.</b> PA1108-M	<b>Immunogen</b> A synthetic peptide corresponding to a sequence at the C-terminal of human STAT3, identical to the related rat and mouse sequence.
<b>Lot No.</b> 08F01	
<b>Ig type:</b> rabbit IgG1	<b>Purification</b> Immunogen affinity purified
<b>Size:</b> 100µg/Vial	<b>Contents</b> Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN <sub>3</sub> .
<b>Specificity</b> Human, mouse, rat. No cross reactivity with other proteins.	<b>Storage</b> Store at 4°C for frequent use.
<b>Recommended application</b> <i>Immunoprecipitation(IP)</i>	<b>Description:</b> This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

#### 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

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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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Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: Info@antageneinc.com