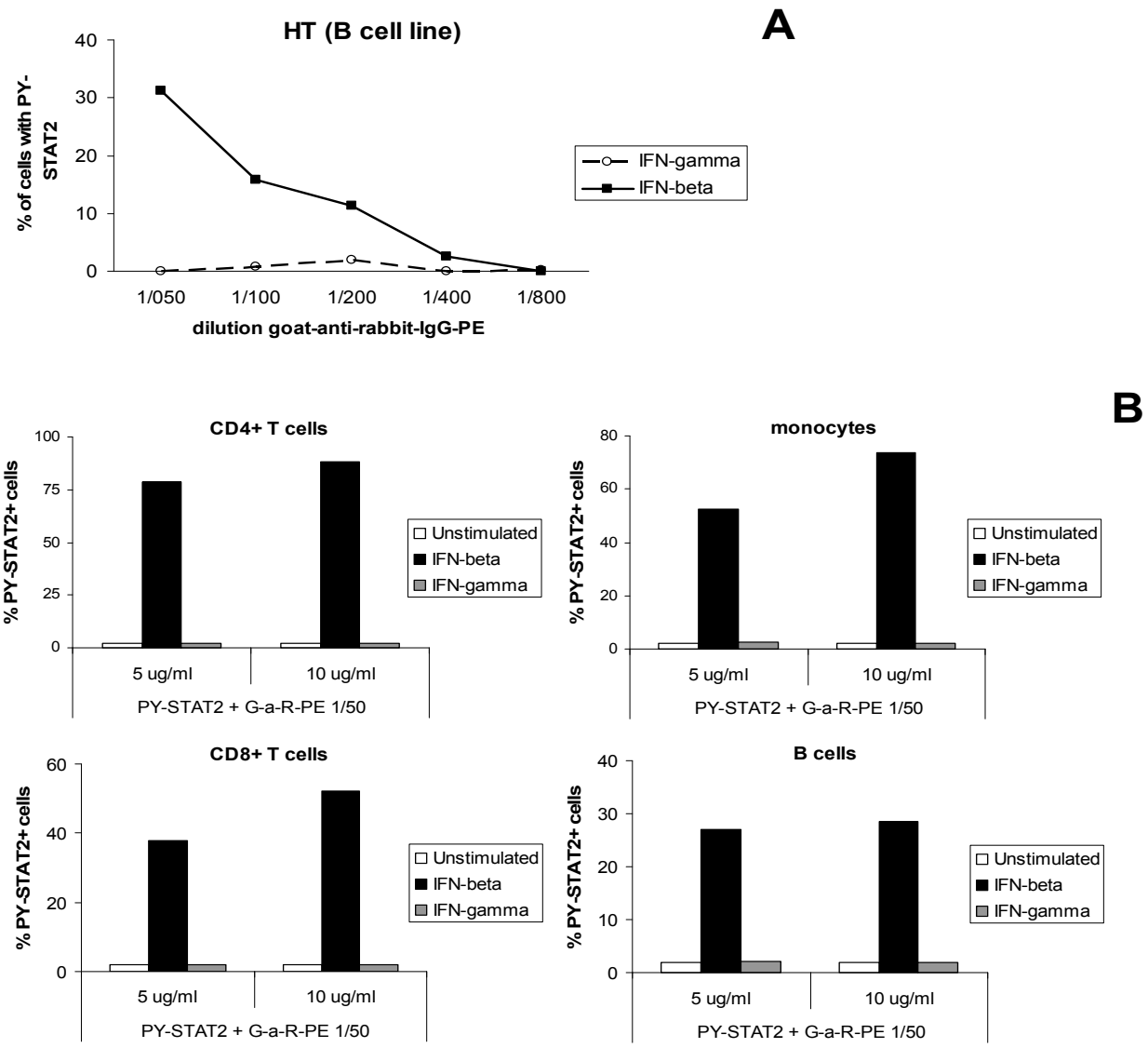
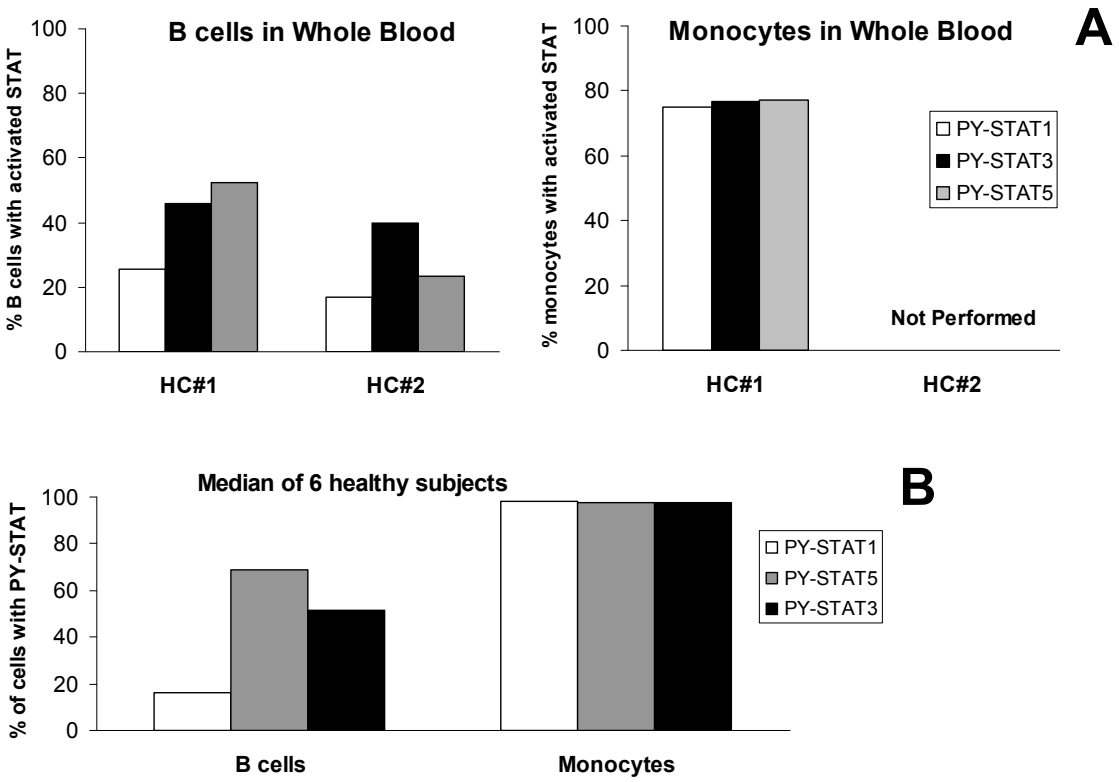


Legends:

Supplemental FIGURE 1A. *PY-STAT2 antibody shows specificity in HT cells.* HT cells were stimulated with 1000 IU/ml IFN-gamma or IFN-beta or left untreated for 20 minutes. Cells were processed as described in Materials & Methods. Cells were stained with 5 µg/ml rabbit-anti-human-PY-STAT2 polyclonal antibody for 1 hr at RT, washed and subsequently stained with a dilution series of Goat-anti-Rabbit-IgG-PE. The anti-PY-STAT2 antibody shows specificity for activated STAT2, because it did not recognize PY-STAT1 after IFN-gamma stimulation or anything in unstimulated cells.

Supplemental FIGURE 1B. *PY-STAT2 antibody shows specificity in whole blood cells.* Undiluted whole blood of a healthy individual was stimulated with 1000 IU/ml IFN-gamma or IFN-beta or left untreated for 45 minutes. Cells were processed as described in Materials & Methods. Cells were then stained with 5 or 10 µg/ml rabbit-anti-human-PY-STAT2 polyclonal antibody in combination with anti-CD antibodies for 1 hr at RT, washed and subsequently stained with Goat-anti-Rabbit-IgG-PE 1/50 diluted. The anti-PY-STAT2 antibody shows specificity, because it did not recognize PY-STAT1, 3 and 5 induction in the various leukocyte subsets after IFN-gamma stimulation.



Legends:

Supplemental FIGURE 2A. *Stimulation of whole blood from 2 donors with 2000 IU/ml IFN-β in order to detect cell type-specific changes in mRNA by micro-array.*
Undiluted whole blood of 2 healthy individuals was stimulated with 2000 IU/ml IFN-β or left untreated for 45 minutes to determine PY-STAT induction; the remainder of the blood was continued to be stimulated for 3 h in total. Certain mRNA changes in purified B cells and monocytes (after 3 h) were linked to differential activation of STAT1,3,5 in B cells and monocytes after 45 minutes (see Materials & Methods for procedures). Individual responses are shown.

Supplemental FIGURE 2B. *Stimulation of whole blood from 6 donors with 2000 IU/ml IFN-β in order to detect cell type-specific changes in mRNA by real-time PCR.*
Undiluted whole blood of 6 healthy individuals was stimulated with 2000 IU/ml IFN-β or left untreated for 45 minutes to determine activation of STATs; the remainder of the blood was continued to be stimulated for 3 h in total. Certain mRNA changes in purified B cells and monocytes (after 3 h) were linked to differential activation of STAT1, 3, and 5 in B cells and monocytes after 45 minutes (see Materials & Methods for procedures). Medians of 6 individuals are shown for percentage PY-STAT+ cells.