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Multisystem autoimmune disease caused by increased STAT3
phosphorylation, and dysregulated gene expression

Francesca Todaro, Nicola Tamassia, Marinella Pinelli, Daniele Moratto,
Laura Dotta, Alessia Grassi, Filippo Consonni, Mauro Giacomelli, Paolo
Lionetti, Elisa Gardiman, Marco A. Cassatella, Eleonora Gambineri,
Roberto Berni Canani, and Raffaele Badolato

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Contributions: FT and MP carried out the culture of the EBV cell lines and performed the phosphorylation assays; FT wrote the paper. NT and EG executed the Real-Time, WB and CHIP assay. DM performed immunophenotypic analysis. LD and FC contributed to the clinical characterization of the patient. AG performed ELISA assays. MG contributed in flow cytometry data acquisition. PL, RBC and EG performed patient clinical follow up. MC supervised signaling experiments. RB supervised the work and designed the experiments.