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Contributions: I.T. made initial observations, designed and performed main experiments, analyzed data and wrote the manuscript. T.S. provided normal bone marrow and patient samples, performed FACS experiments and helped with data analysis. B.N. performed experiments with NSG xenotransplantation. H.K. performed HISH and murine tissue examination. A.T. supervised part of this work as Doctorate Thesis advisor and analyzed data. B.F. analyzed data and discussed experimental design. C.S. designed and supervised experiments and wrote manuscript. N.K. provided bone marrow and patient material and discussed results. All authors read and approved this version of the manuscript.