

Appendix 1 Wright-Giemsa stain analyses and flow cytometry

Bone marrow aspirates from the patient were treated with Wright-Giemsa stain (cat. no. G1020; Solarbio) according to the manufacturer's protocol and the morphological changes were observed under an optical microscope. Mononuclear cells were firstly derived from the bone marrow and the mononuclear cell suspensions were then treated with mouse serum to block the binding to non-specific Fc receptors. Next, to assess the surface and intracellular markers, the cells were stained with anti-human monoclonal antibodies, from BD Biosciences and BioLegend, in accordance with the manufacturer's instructions. Intracellular cytokine staining involved 4 h of stimulation of the cells with phorbol 12-myristate 13-acetate (PMA) (50 ng/mL; Sigma) and ionomycin (1 µg/mL; Calbiochem) in the presence of monensin (10 µg/mL; Sigma). Data were collected using an FCM LSR II flow cytometer (BD Biosciences, USA) and analyzed using FlowJo software (Tree Star, USA).

Table S1 Baseline characteristics of AML patient

Characteristic	Value
Gender (M/F)	F
Age, years	14.0
White blood cell count, $\times 10^9/L$	26.8
Red blood cell count, $\times 10^{12}/L$	2.95
Nucleated red blood cell count, $\times 10^9/L$	0.02
Nucleated red blood cell (%)	0.10
Immature reticulocytes (%)	29.4
Platelet count, $\times 10^9/L$	55.0
Lymphocyte count, $\times 10^9/L$	3.19
Lymphocytes (%)	11.9
Neutrophil count, $\times 10^9/L$	3.54
Neutrophils (%)	13.2
Monocyte count, $\times 10^9/L$	3.54
Monocytes (%)	74.7
Eosinophil count, $\times 10^9/L$	0.02
Eosinophils (%)	0.10
Basophil count, $\times 10^9/L$	0.03
Basophils (%)	0.10
Hemoglobin (g/L)	87.0

Table S2 Antibodies used in flow cytometric analysis

Antibody	Brand	Cat. No.
APC-CY7 Mouse Anti-Human CD3	BD Bioscience	Cat# 557832, RRID:AB_396890
FITC Mouse Anti-Human CD16	BD Bioscience	Cat# 555406, RRID:AB_395806
FITC Mouse Anti-Human CD27	BD Bioscience	Cat# 555440, RRID:AB_395833
APC-Cy7 Mouse Anti-Human CD14	BD Bioscience	Cat# 557831
APC Mouse Anti-Human CD107a	BD Bioscience	Cat# 560664, RRID:AB_396135
PerCP-CY5.5 Mouse Anti-Human CD38	BD Bioscience	Cat# 551400, RRID:AB_394184
FITC Mouse Anti-Human CD4	BD Pharmingen	Cat# 555346, RRID:AB_395751
PE-Cy7 Mouse Anti-Human CD8	BD Pharmingen	Cat# 557746, RRID:AB_396852
FITC Mouse Anti-Human IFN- γ	BD Bioscience	Cat# 554700, RRID:AB_395517
PE Mouse Anti-Human CD69	BD Bioscience	Cat# 555531, RRID:AB_395916
PE Mouse Anti-Human PD-1	BD Bioscience	Cat#560795
7-AAD	BD Bioscience	Cat# 559925
APC Mouse Anti-Human HLA-DR	BD Bioscience	Cat# 559866, RRID:AB_398674
PerCP-CY5.5 Mouse Anti-Human CD123	BD Bioscience	Cat# 558714, RRID:AB_891359
FITC Mouse anti-human Lineage Cocktail	BD Bioscience	Cat# 348801, RRID:AB_10612570
APC-CY7 Mouse Anti-Human CD11c	Biolegend	Cat# 337218
PE Mouse Anti-Human NKG2D	BD Bioscience	Cat# 557940
PE Mouse Anti-Human TNF- α	BD Bioscience	Cat# 559321, RRID:AB_397219
Alexa Fluor [®] 647 Mouse Anti-Human NKP30	BD Bioscience	Cat# 558408, RRID:AB_398454
FITC Mouse IgG1, κ	BD	Cat# 555748, RRID:AB_396090
PE Mouse IgG1, κ	BD	Cat# 55749, RRID:AB_396091
PerCP-Cy5.5 Mouse IgG1, κ	BD	Cat# 552834, RRID:AB_394484
PE-Cy7 Mouse IgG1, κ	BD	Cat# 557872, RRID:AB_396914
Alexa Fluor 647 Mouse IgG1, κ	BD	Cat# 557714, RRID:AB_396823
APC-Cy7 Mouse IgG1, κ	BD	Cat# 557873, RRID:AB_396915
APC-Cy7 Mouse IgG1, $\kappa\kappa$	Biolegend	Cat# 400161, RRID:AB_11125373
PE Mouse IgG2a, κ	BD	Cat# 555574, RRID:AB_395953
PerCP-Cy5.5 Mouse IgG2a, κ	BD	Cat# 558020, RRID:AB_396989
PE-Cy7 Mouse IgG2b, κ	Biolegend	Cat# 400325

No., number; Cat., catalog; RRID, Research Resource Identifier.