

Figure S1: Comparison of percentages of leukocyte subpopulations in peripheral blood

between IgAN patients (N=22) and HS (N=50). (a) Double positive (CD4⁺CD8⁺) T lymphocytes; **(b)** Double negative (CD4⁺CD8⁻) T lymphocytes; **(c)** CM CD8⁺ T lymphocytes (CCR7⁺CD45RA⁻); **(d)** EM Th2 lymphocytes (CD3⁺CD4⁺CXCR3⁻CCR6⁻CCR7⁻CD45RA⁻); **(e)** EM Th17 lymphocytes (CD3⁺CD4⁺CXCR3⁻CCR6⁺CCR7⁻CD45RA⁻); **(f)** Naïve CD4⁺ T lymphocytes (CD3⁺CD4⁺CCR7⁺CD45RA⁺) **(g)** CM Th1 lymphocytes (CD3⁺CD4⁺CXCR3⁺CCR6⁻CCR7⁺CD45RA⁻); **(h)** CM Th2 lymphocytes (CD3⁺CD4⁺CXCR3⁻CCR6⁻CCR7⁺CD45RA⁻); **(i)** CM Th17 lymphocytes (CD3⁺CD4⁺CXCR3⁻CCR6⁺CCR7⁺CD45RA⁻); **(j)** Regulatory T lymphocytes; **(k)** unswitched memory B lymphocytes (CD19⁺CD27⁺IgD⁺IgM⁺); **(l)** unswitched memory B lymphocytes (CD19⁺CD27⁺IgD⁺IgM⁺); **(m)** switched memory B lymphocytes (CD19⁺CD27⁺IgD⁻IgM⁺); **(n)** plasmacytoid dendritic cells (HLA-DR⁺CD11c⁻CD123⁺); **(o)** NK CD56^{bright}CD16⁻ lymphocytes

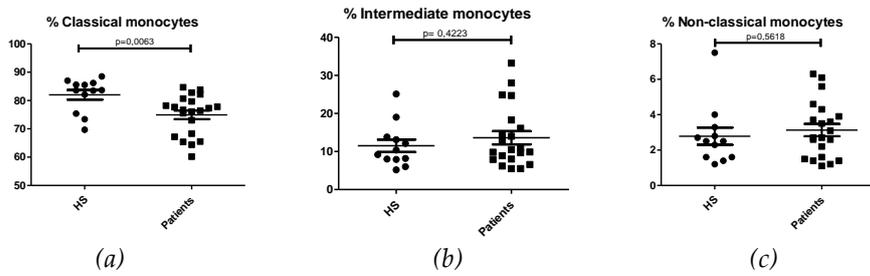


Figure S2: Comparison of monocyte subsets distribution between IgAN patients (N=22) and HS (N=12). (a) Percentages of classical monocytes (CD14⁺CD16⁺); (b) percentages of intermediate monocytes (CD14⁺CD16⁺); (c) percentages of non-classical monocytes (CD14^{low}CD16⁺⁺)

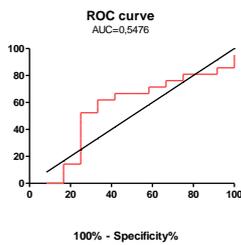
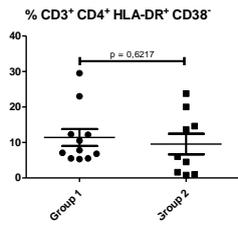
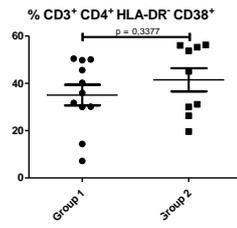


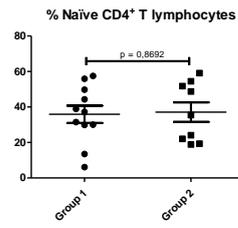
Figure S3: Discriminatory capacity of CD95 MFI on non-classical monocytes (CD14^{low}CD16⁺⁺). The optimal cut-off was 4000; AUC: Area Under the Curve



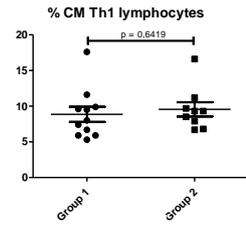
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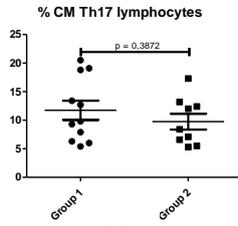
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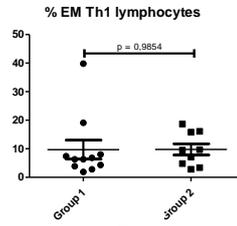
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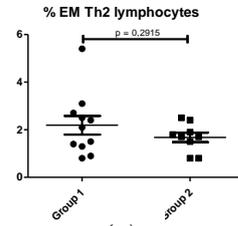
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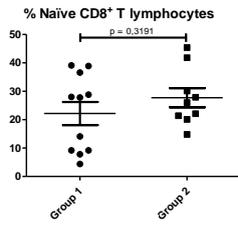
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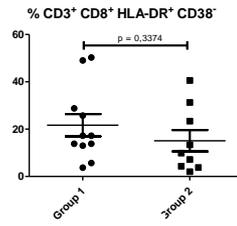
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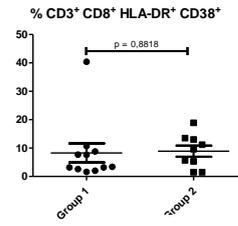
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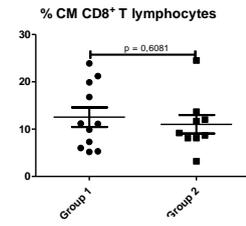
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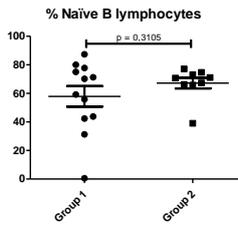
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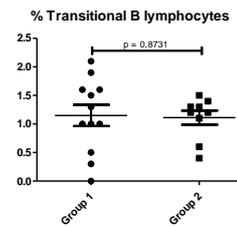
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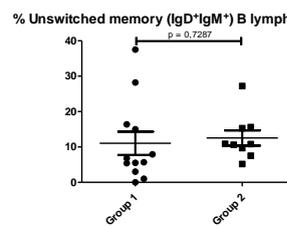
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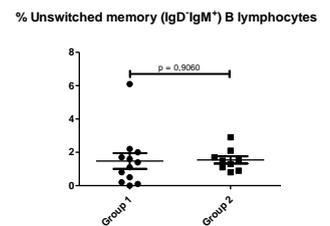
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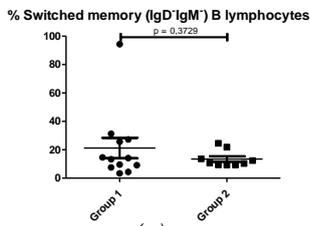
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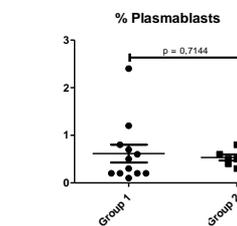
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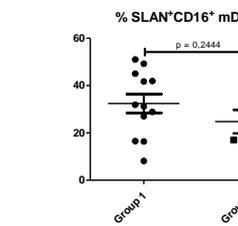
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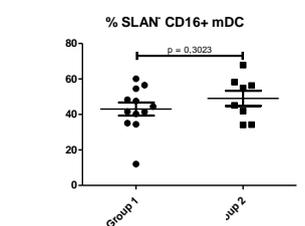
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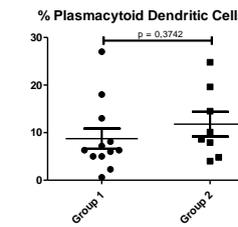
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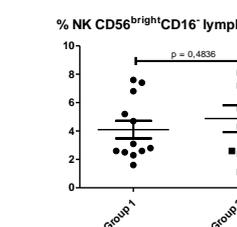
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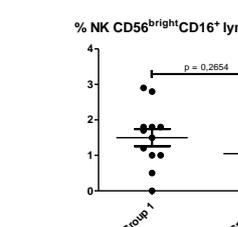
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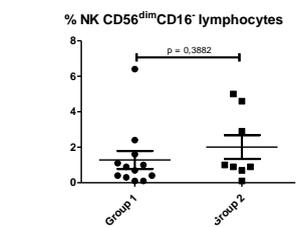
(t)



(u)



(v)



(w)

Figure S4: Comparison of percentage of leukocyte subpopulations between the two groups of patients according to CD89^{high} MFI in non-classical monocytes (CD14^{low}CD16⁺⁺): group 1 with CD89^{high} MFI < 4000 (N=13); group 2 with CD89^{high} MFI > 4000 (N=9). (a) Activated CD4⁺ T lymphocytes (CD3⁺CD4⁺HLA-DR⁺CD38⁺); (b) Activated CD4⁺ T lymphocytes (CD3⁺CD4⁺HLA-DR⁻CD38⁺); (c) Naïve CD4⁺ T lymphocytes (CD3⁺CD4⁺CCR7⁺CD45RA⁺); (d) Central Memory (CM) Th1 lymphocytes (CD3⁺CD4⁺CXCR3⁺CCR6⁻CCR7⁺CD45RA⁻); (e) Central Memory (CM) Th17 lymphocytes (CD3⁺CD4⁺CXCR3⁻CCR6⁺CCR7⁺CD45RA⁻); (f) Effector Memory (EM) Th1 lymphocytes (CD3⁺CD4⁺CXCR3⁺CCR6⁻CCR7⁻CD45RA⁻); (g) Effector Memory (EM) Th2 lymphocytes (CD3⁺CD4⁺CXCR3⁻CCR6⁻CCR7⁻CD45RA⁻); (h) Naïve CD8⁺ T lymphocytes (CCR7⁺CD45RA⁺); (i) Activated CD8⁺ T lymphocytes (CD3⁺CD8⁺HLA-DR⁺CD38⁺); (j) Activated CD8⁺ T lymphocytes (CD3⁺CD8⁺HLA-DR⁺CD38⁺); (k) Central Memory (CM) CD8⁺ T lymphocytes (CCR7⁺CD45RA⁻); (l) Naïve B lymphocytes (CD19⁺CD27⁻IgD⁺IgM⁺); (m) Transitional B lymphocytes (CD19⁺CD27⁻CD24^{high}CD38^{high}); (n) Unswitched memory B lymphocytes (CD19⁺CD27⁺IgD⁺IgM⁺); (o) Unswitched memory B lymphocytes (CD19⁺CD27⁺IgD⁻IgM⁺); (p) Switched memory B lymphocytes (CD19⁺CD27⁺IgD⁻IgM⁻); (q) Plasmablasts (CD19⁺CD27⁺CD20⁺CD38^{high}); (r) SLAN⁺CD16⁺ myeloid Dendritic Cells (mDC); (s) SLAN⁻CD16⁺ myeloid Dendritic Cells (mDC); (t) Plasmacytoid Dendritic Cells (HLA-DR⁺CD11c⁺CD123⁺); (u) NK CD56^{bright}CD16⁻ Lymphocytes; (v) NK CD56^{bright}CD16⁺ lymphocytes; (w) NK CD56^{dim}CD16⁻ lymphocytes

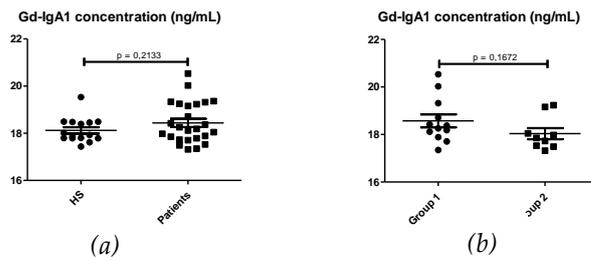


Figure S5: Comparison of serum Gd-IgA1 concentration (ng/mL). (a) Between HS (N=12) and patients (N=22); (b) Between the two groups of IgAN patients according to CD89^{high} MFI on non-classical monocytes (CD14^{low}CD16⁺⁺), group 1 MFI of CD89^{high} on non-classical monocytes < 4000; Group 2 CD89^{high} MFI on non-classical monocytes > 4000

Figure S6: Gating strategy for monocyte subpopulations analysis and CD89 expression.

