**Figure 4**

**a** NSCLC TIL\textsuperscript{lo} vs NSCLC TIL\textsuperscript{hi} RNA expression profiles and scatter plots for selected genes.

**b** Scatter plots showing correlations between TIL\textsuperscript{lo}, TIL\textsuperscript{hi}, and N-TIL for RNA expression of selected genes.

**c** Scatter plots showing correlations between z-scores and expression of ITGAE (normalized).

**d** Cytofluorimetric analyses of CD8\textsuperscript{+} cells in NSCLC TIL\textsuperscript{lo} vs TIL\textsuperscript{hi}.

**e** Heatmaps and scatter plots showing expression of CD69, CD49a, CD103, and KLRG1 in PBMC, Lung N-TIL, and NSCLC TIL.

**f** Heatmaps showing expression of PD-1, CD103, and CD49a in NSCLC TIL.

**g** Heatmaps showing expression of RES, CD38, and GBP1 in NSCLC TIL.

**h** Heatmaps showing expression of CD8\textsuperscript{+} cells in NSCLC TIL.