

Figure S1. Single-cell RNA sequencing analysis of lipid-rich CAFs signature genes in GSE134520. (A) Cell clustering in the GSE134520 single-cell RNA sequencing dataset. (B) Expression of FABP4 in CAFs from the GSE134520 dataset. (C) Expression level of APOC3 in CAFs, (D) Expression level of APOA2 in CAFs from the GSE134520 dataset. (E) APOC2 in CAFs from the GSE134520 dataset. (F) Expression level of ROBO4, (G) Expression level of CD36 in CAFs from the GSE134520 dataset. (H) ABCA8 in CAFs from the GSE134520 dataset. (I) Expression level of PTGS2 in CAFs from the GSE134520 dataset. FABP4, fatty acid-binding protein 4; APO, apolipoprotein; ROBO4, roundabout homolog 4; ABCA8, ATP-binding cassette subfamily A member 8; PTGS2, prostaglandin-endoperoxide synthase 2; STAD, stomach adenocarcinoma; CAFs, cancer-associated fibroblasts.

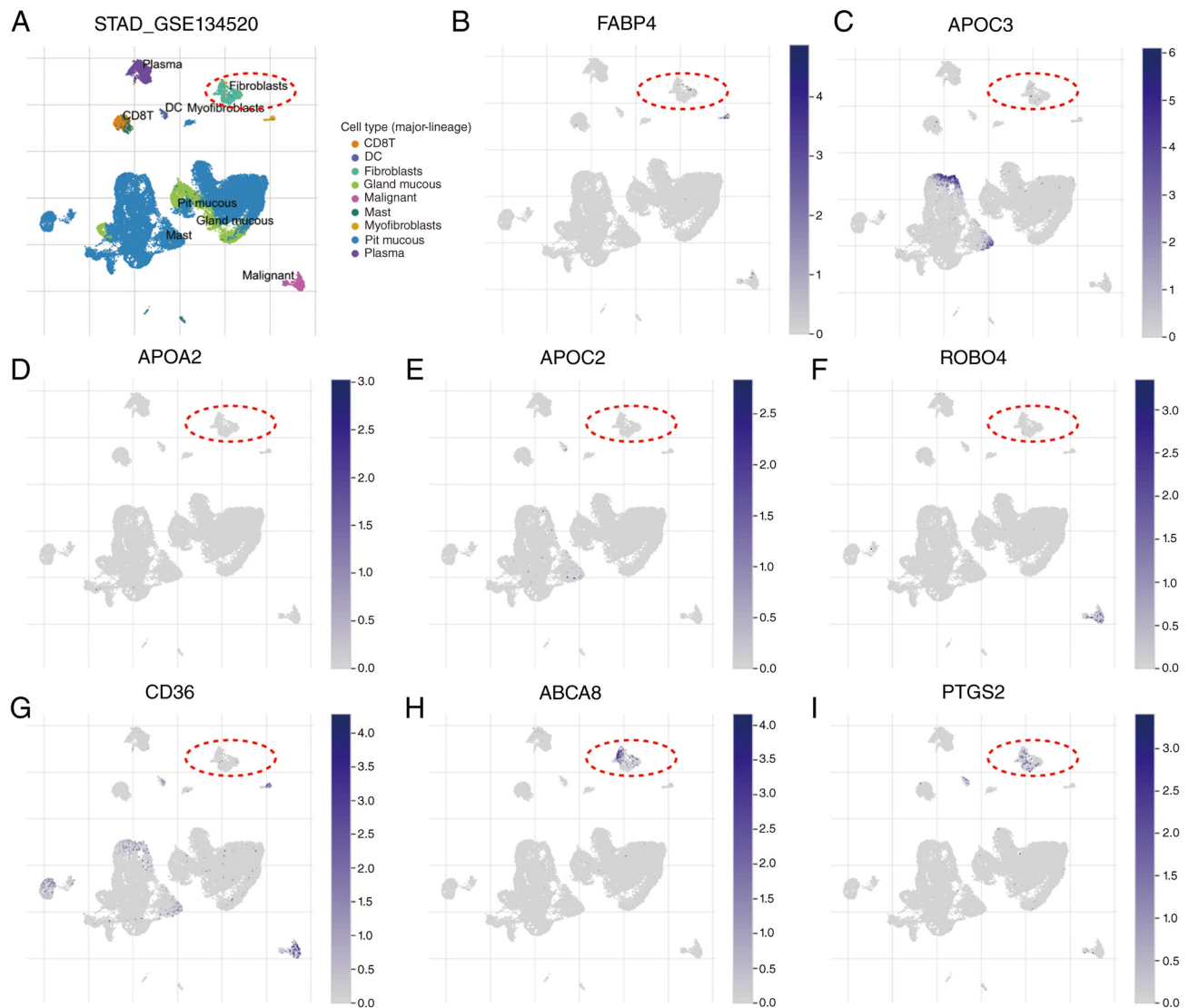


Figure S2. Single-cell RNA sequencing analysis of lipid rich-CAF signature genes in GSE167297. (A) Cell clustering in the GSE167297 single-cell RNA sequencing dataset. (B) Expression level of FABP4 in CAFs from the GSE167297 dataset. (C) Expression level of APOC3 in CAFs from the GSE167297 dataset. (D) Expression level of APOA2 in CAFs from the GSE167297 dataset. (E) Expression level of APOC2 in CAFs from the GSE167297 dataset. (F) Expression of ROBO4, (G) Expression level of CD36 in CAFs, (H) Expression level of ABCA8 and (I) PTGS2 in CAFs from the GSE167297 dataset. FABP4, fatty acid-binding protein 4; APO, apolipoprotein; ROBO4, roundabout homolog 4; ABCA8, ATP-binding cassette subfamily A member 8; PTGS2, prostaglandin-endoperoxide synthase 2; STAD, Stomach Adenocarcinoma; CAFs, cancer-associated fibroblasts.

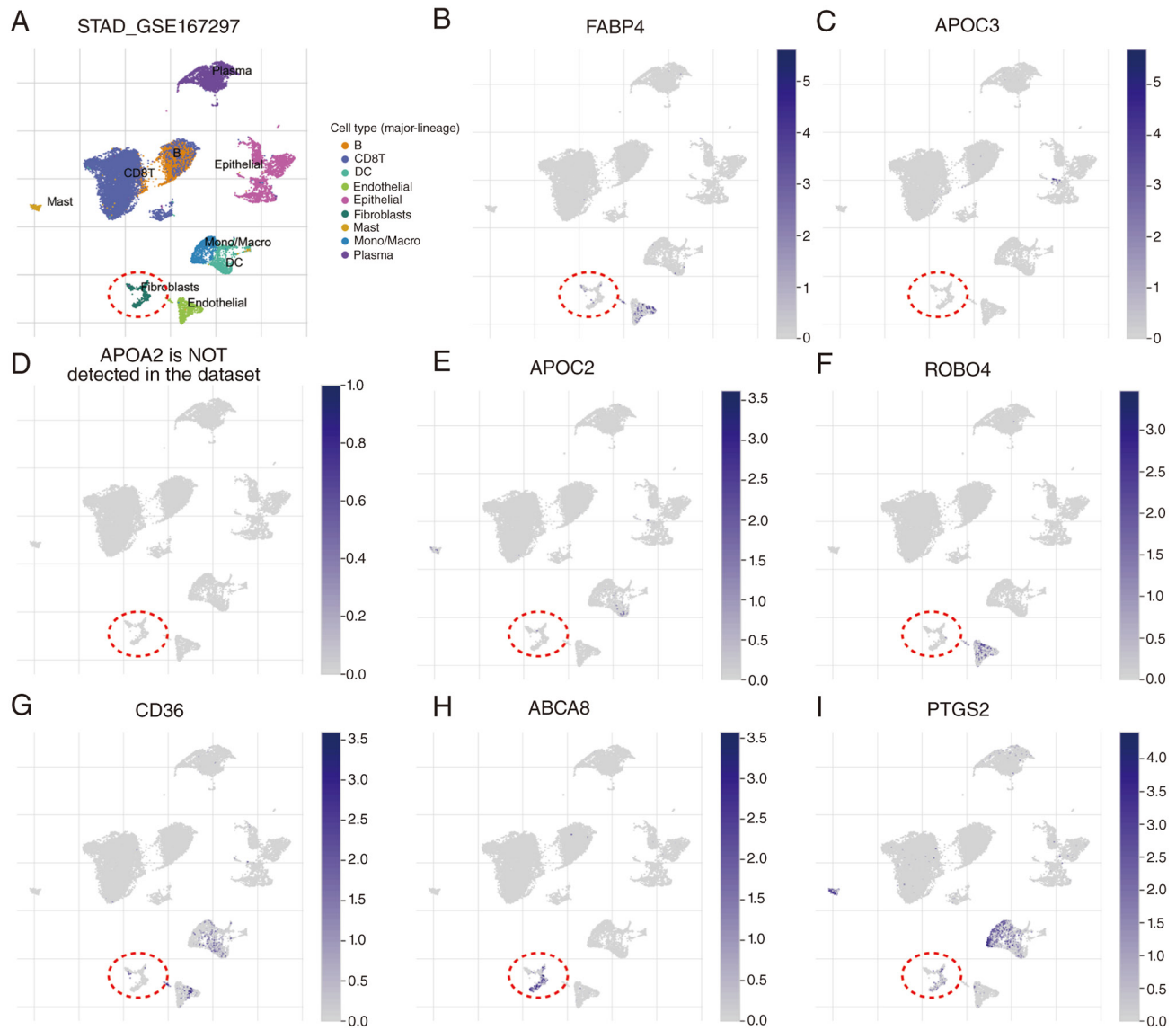


Figure S3. Clinical association analysis of lipid rich-cancer associated fibroblast signature genes in gastric cancer. (A) Clinical association analysis of FABP4 in gastric cancer, including survival analysis, expression by tumor grade and expression by pathological stage. (B) Clinical association analysis of APOC, (C) Clinical association analysis of APOA2 in gastric cancer, including survival analysis, (D) Clinical association analysis of APOC2 in gastric cancer, including survival analysis, (E) Clinical association analysis of ROBO4 in gastric cancer, including survival analysis, (F) Clinical association analysis of CD36 in gastric cancer, including survival analysis, (G) Clinical association analysis of ABCA8 in gastric cancer, including survival analysis and (H) Clinical association analysis of PTGS2 in gastric cancer, including survival analysis, expression by tumor grade and expression by pathological stage. FABP4, fatty acid-binding protein 4; APO, apolipoprotein; ROBO4, roundabout homolog 4; ABCA8, ATP-binding cassette subfamily A member 8; PTGS2, prostaglandin-endoperoxide synthase 2; STAD, stomach adenocarcinoma; CAF, cancer-associated fibroblasts; CPM, counts per million.

