

Supplementary Figures

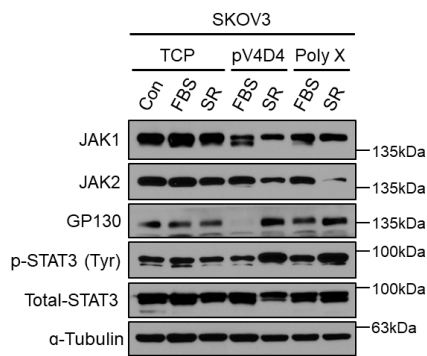


Figure S1. Expression of GP130-JAK-STAT3 signaling proteins in the SKOV3 cells grown under polymer X, pV4D4, or TCP culture conditions supplemented with FBS or SR. Cell lysates from SKOV3 cancer cells cultured on TCP or pV4D4 or polymer X by date were immunoblotted with antibodies specific to JAK1, JAK2, GP130, p-STAT3, total STAT3, and α-tubulin.

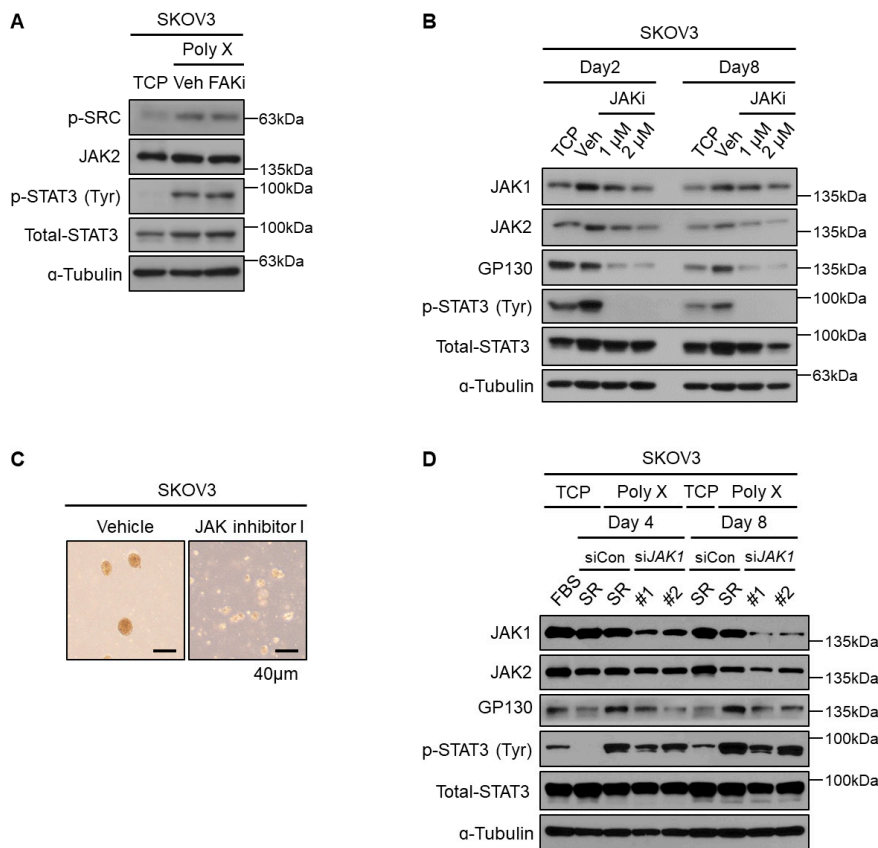


Figure S2. Activation of STAT3 phosphorylation by JAK2 rather than JAK1 in the SKOV3 cells grown on polymer X. (A) Cell lysates from SKOV3 cancer cells administered with FAK inhibitor, Y15 cultured on TCP or polymer X for 8 days were immunoblotted with antibodies specific to p-SRC, JAK2, p-

STAT3, total STAT3, and α -tubulin. (B) Cell lysates from SKOV3 cancer cells treated with the JAK inhibitor I cultured on TCP or polymer X for 8 days were immunoblotted with antibodies specific to JAK1, JAK2, GP130, p-STAT3, total STAT3, and α -tubulin. (C) Image of tumor spheroids cultured on polymer X while administering JAK inhibitor I. Scale bar, 40 μ m. (D) Cell lysates from SKOV3 cancer cells transfected with either non-target siRNA or siJAK1, cultured on polymer X on days 4 and 8 were immunoblotted with antibodies specific to JAK1, JAK2, GP130, p-STAT3, total STAT3, and α -tubulin.

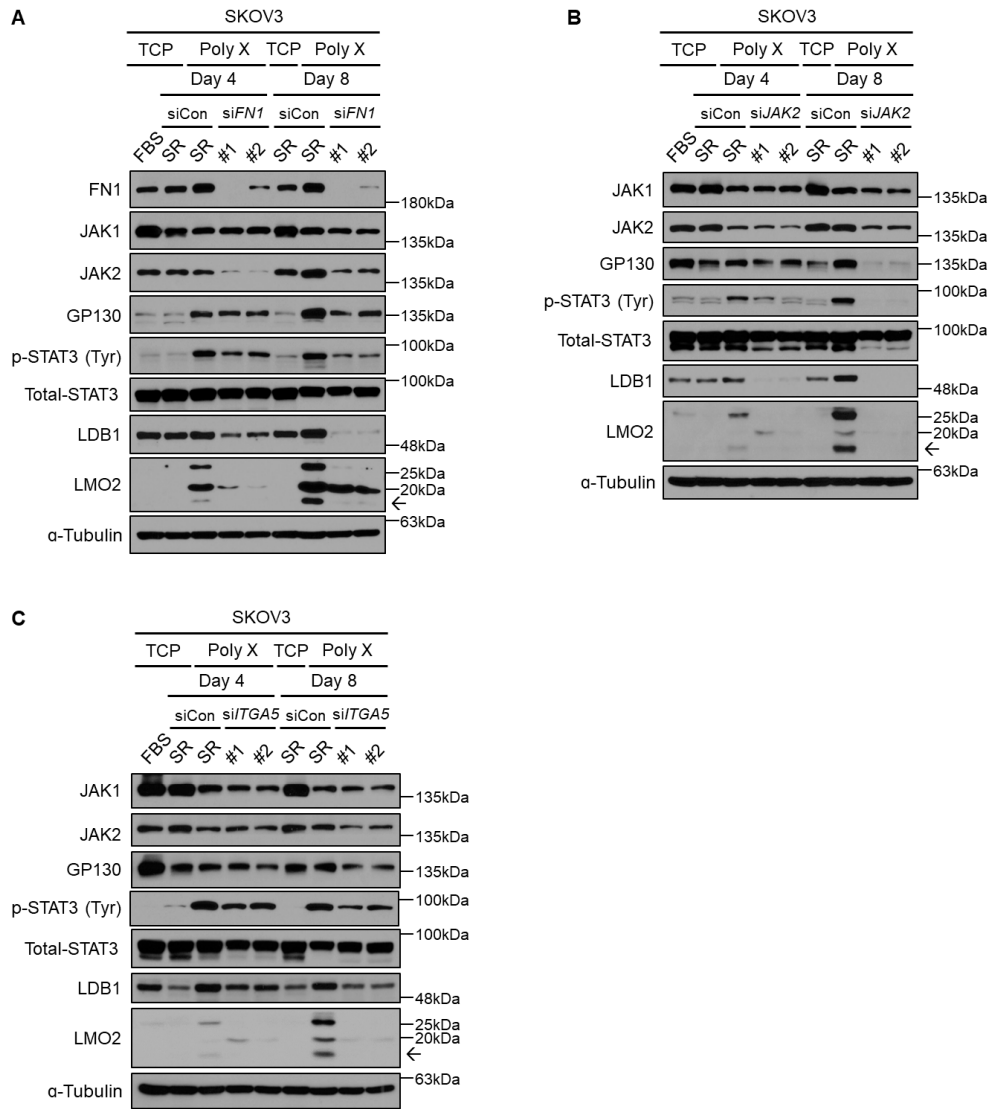


Figure S3. Expression of STAT3 signaling and LMO2/LDB1 proteins in the FN-, JAK2-, or Integrin α 5-depleted SKOV3 cells grown under polymer X or TCP culture conditions. (A) Cell lysates from SKOV3 cancer cells transfected with either non-target siRNA or siFN1, cultured on polymer X on days 4 and 8 were immunoblotted with antibodies specific to FN1, JAK1, JAK2, GP130, p-STAT3, total STAT3, LMO2, LDB1 and α -tubulin. (B) Cell lysates from SKOV3 cancer cells transfected with either non-target siRNA or siJAK2, cultured on polymer X on days 4 and 8 were immunoblotted with antibodies specific to FN1, JAK1, JAK2, GP130, p-STAT3, total STAT3, LMO2, LDB1, and α -tubulin. (C) Cell lysates from SKOV3 cancer cells transfected with either non-target siRNA or siITGA5, cultured on polymer X on days 4 and 8 were

immunoblotted with antibodies specific to FN1, JAK1, JAK2, GP130, p-STAT3, total STAT3, LMO2, LDB1, and α -tubulin.