Supplemental Figure for:

Title: TOFACITINIB ALTERS STAT3 SIGNALING AND LEADS TO ENDOMETRIOSIS LESION REGRESSION

Authors: Alexander M. Kotlyar, Ramanaiah Mamillapalli, Valerie A. Flores, Hugh S. Taylor

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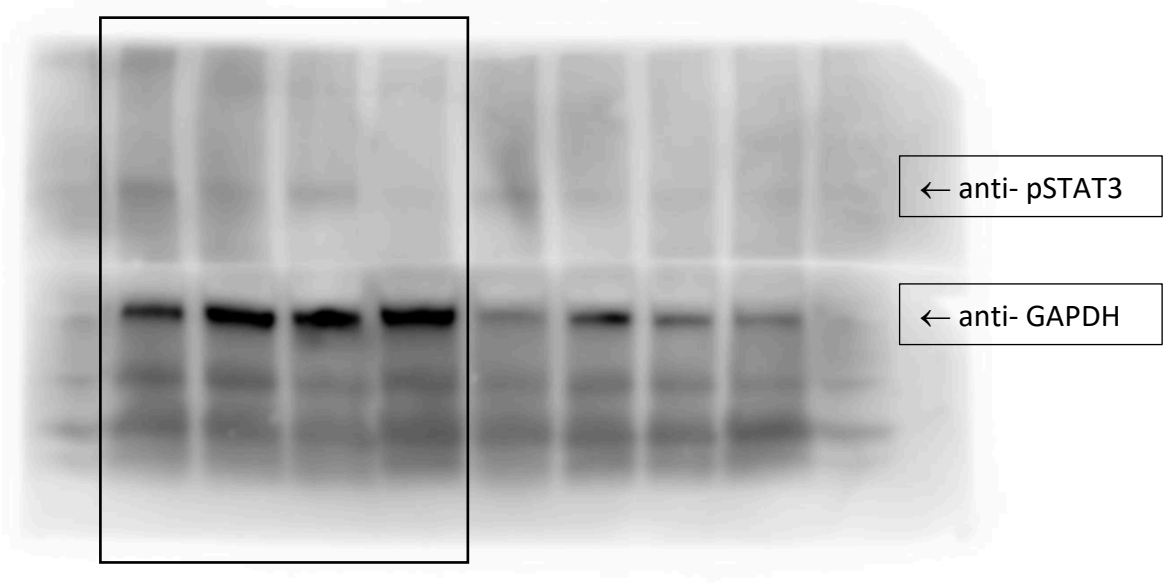
Supplemental Figure S1: Uncropped western blot gels for Figure 2: Tofacitinib reduced phosphorylation of STAT3 in murine endometriotic lesions and uteri.

a. 15 MIN exposure for anti-pSTAT3 and anti-GAPDH



b. 1 MIN exposure for anti-STAT3

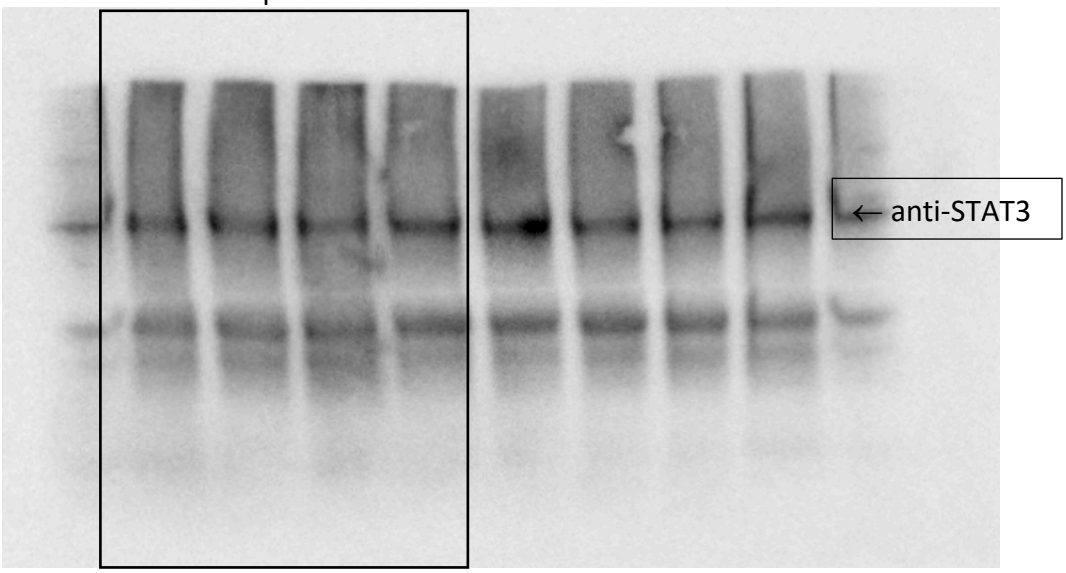
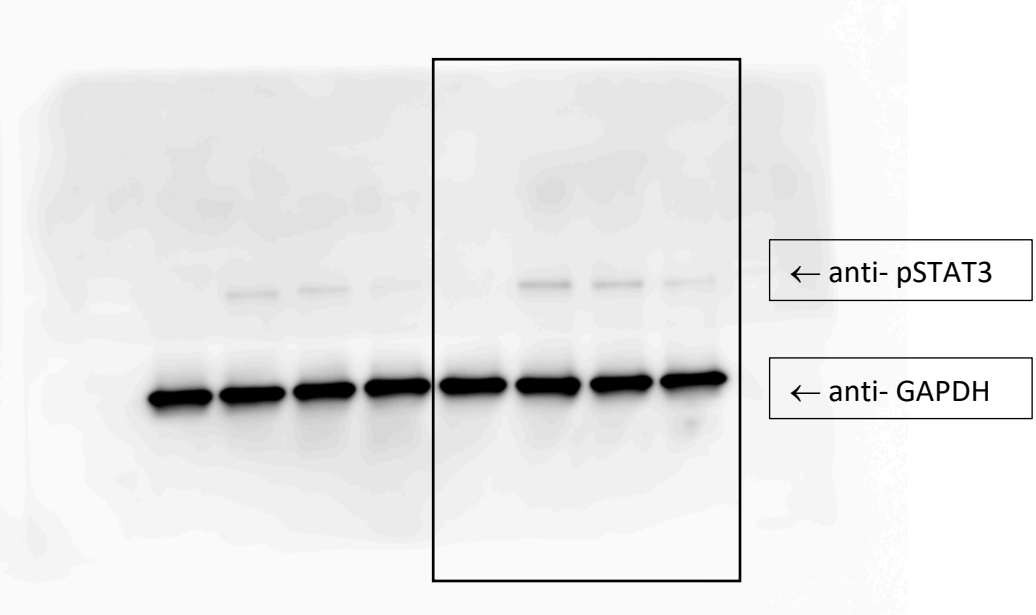


Figure S1 Legend: Panel 1: Unedited representative western blot for mouse uteri and endometriotic lesions for phosphorylated STAT3 (pSTAT3) levels, GAPDH, and total-STAT3 following treatment with vehicle or Tofacitinib via oral gavage for four weeks.

Supplemental Figure S2: Uncropped western blot gels for Figure 3: Tofacitinib Tofacitinib reduced IL-6+E2 stimulated phosphorylation of STAT3 in Ishikawa cells. (Samples performed in replicate)

a. 15 MIN exposure for anti-pSTAT3 and anti-GAPDH



b. 1 MIN exposure for anti-STAT3 and anti-GAPDH

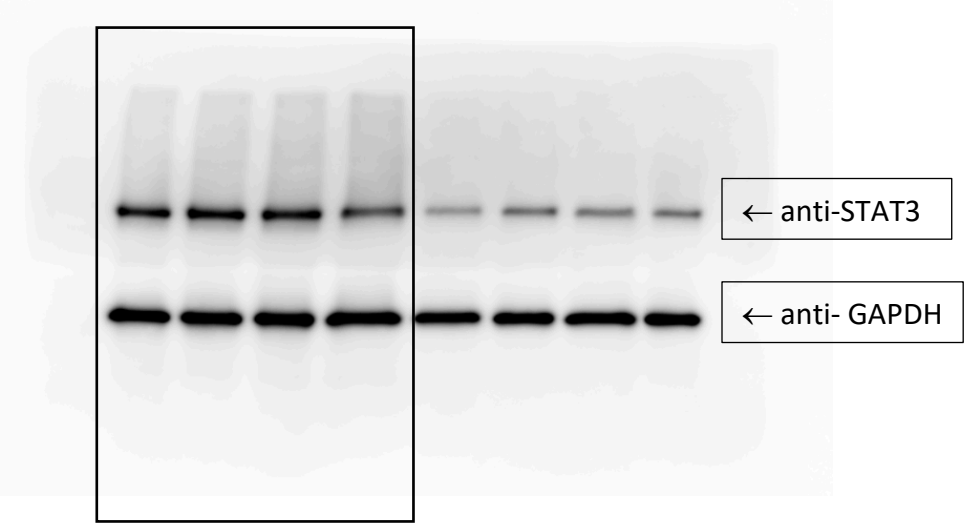
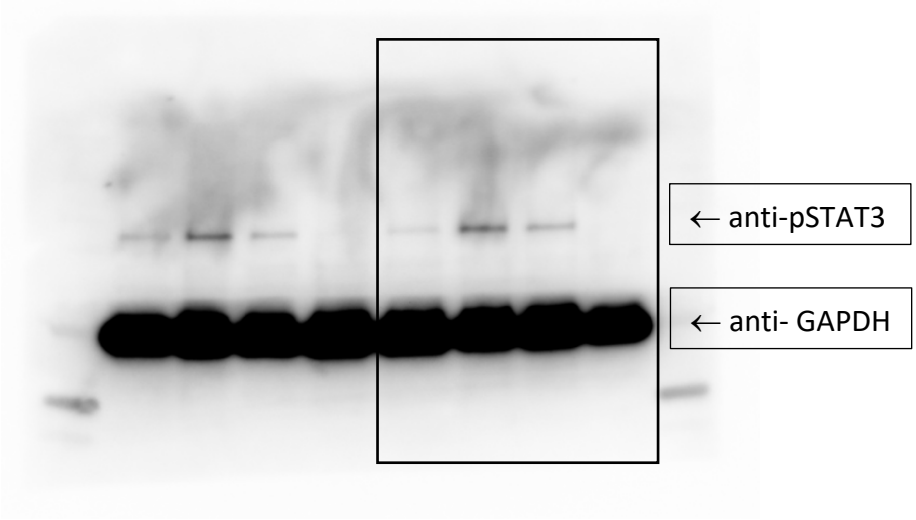


Figure S2 Legend: Unedited representative western blot for phosphorylated STAT3 (pSTAT3) levels, GAPDH, and total-STAT3 for Ishikawa cells following 24 hr treatment.

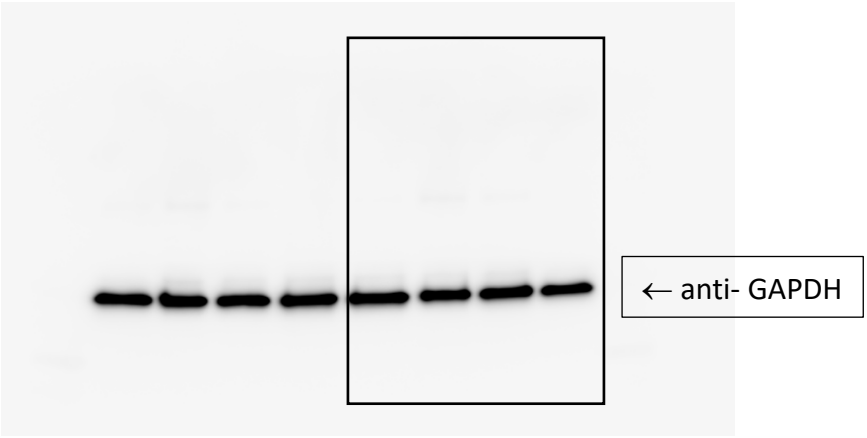
Supplemental Figure S3: Uncropped western blot gels for Figure 5: Tofacitinib treatment decreased pSTAT3 levels in primary cells. (Samples performed in replicate)
Control patient eutopic epithelial Cells:

i. Epithelial Cells

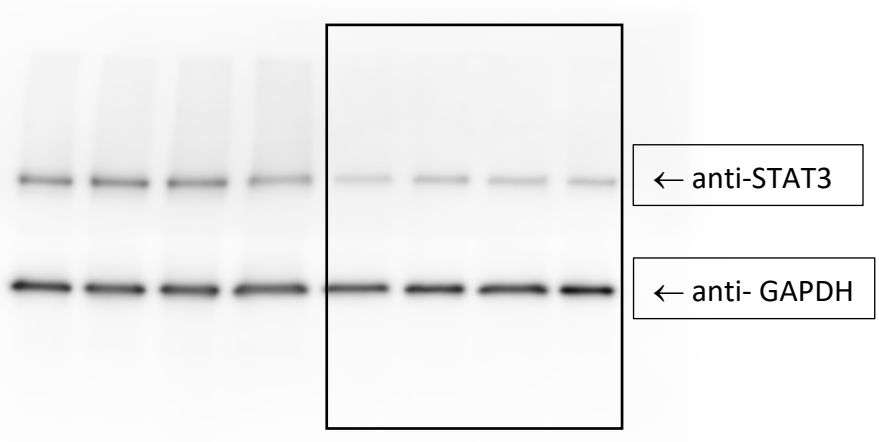
a. 15 MIN exposure for anti-pSTAT3 and anti-GAPDH



b. 3 MIN exposure for anti-pSTAT3 and anti-GAPDH

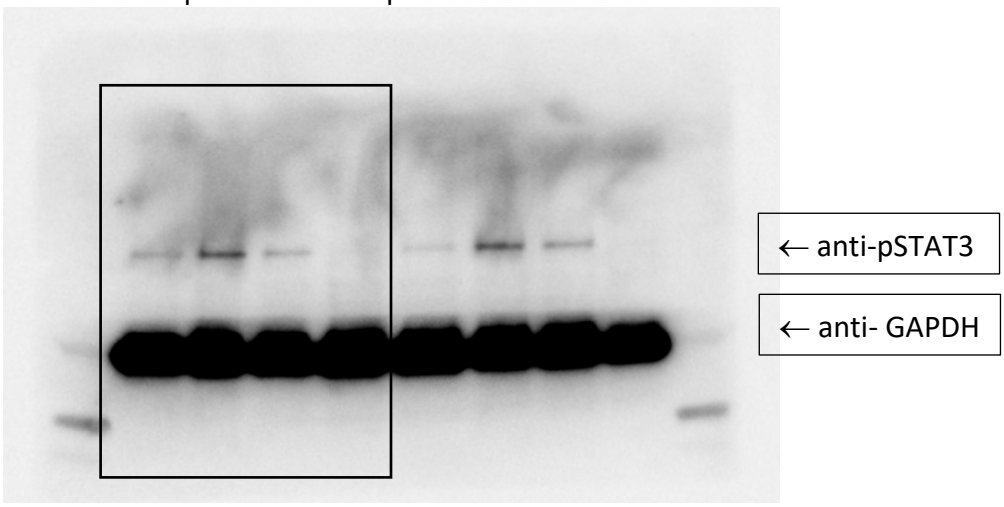


c. 1 MIN exposure for anti-STAT3 and anti-GAPDH

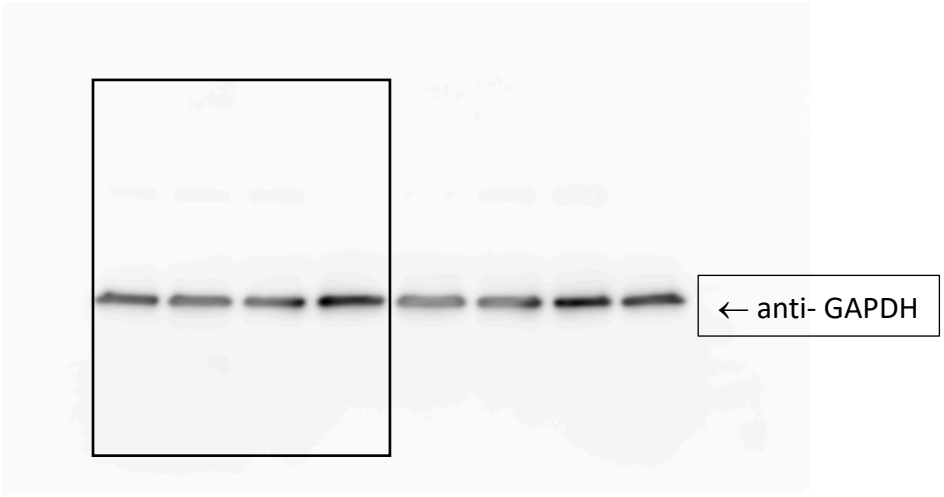


ii. Stromal cells:

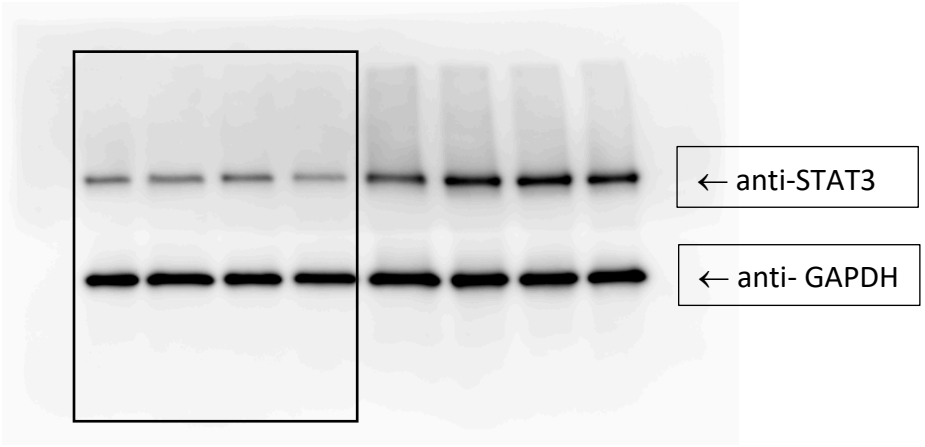
a. 15 MIN exposure for anti-pSTAT3 and anti-GAPDH



b. 3 MIN exposure for anti-pSTAT3 and anti-GAPDH



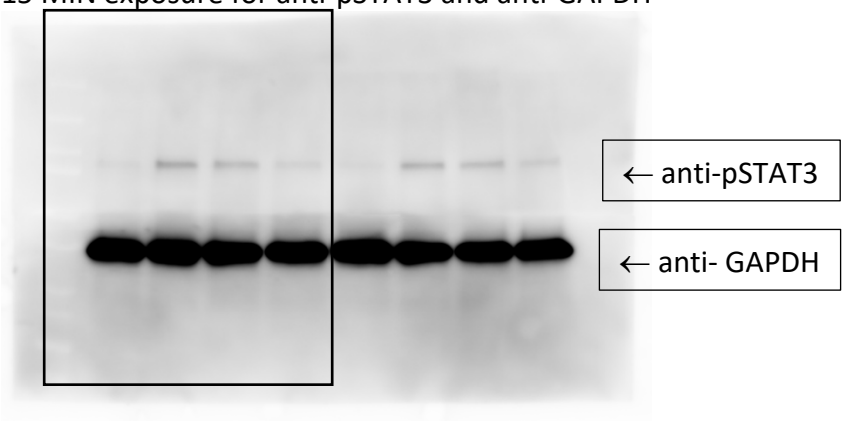
c. 1 MIN exposure for anti-STAT3 and anti-GAPDH



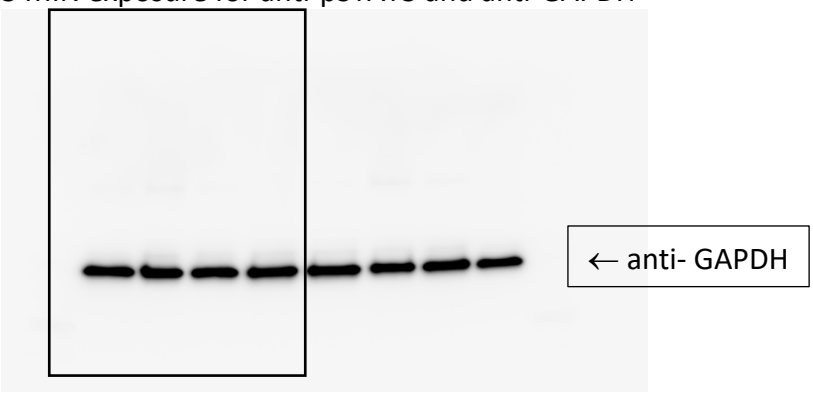
Endometriosis eutopic endometrial Cells:

i. Epithelial cells:

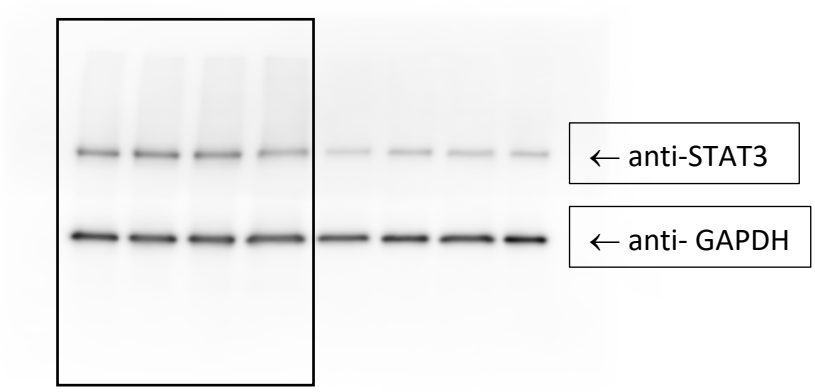
a. 15 MIN exposure for anti-pSTAT3 and anti-GAPDH



b. 3 MIN exposure for anti-pSTAT3 and anti-GAPDH

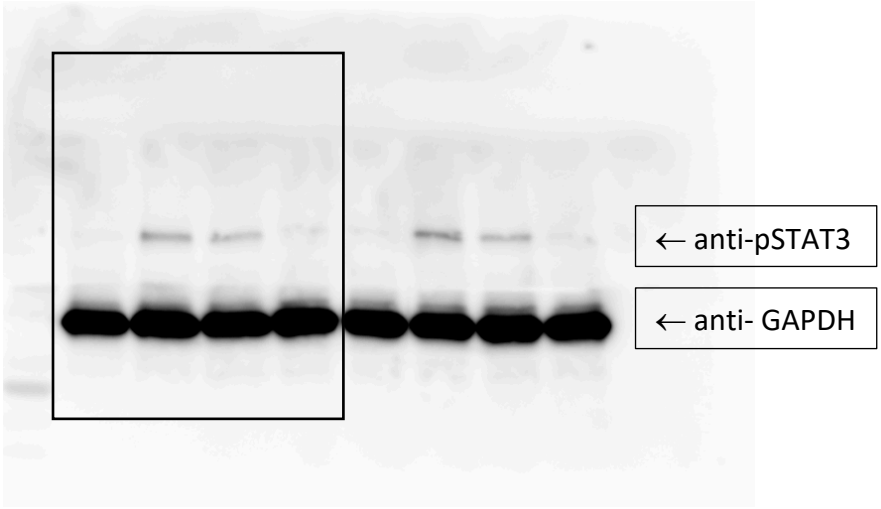


c. 1 MIN exposure for anti-STAT3 and anti-GAPDH

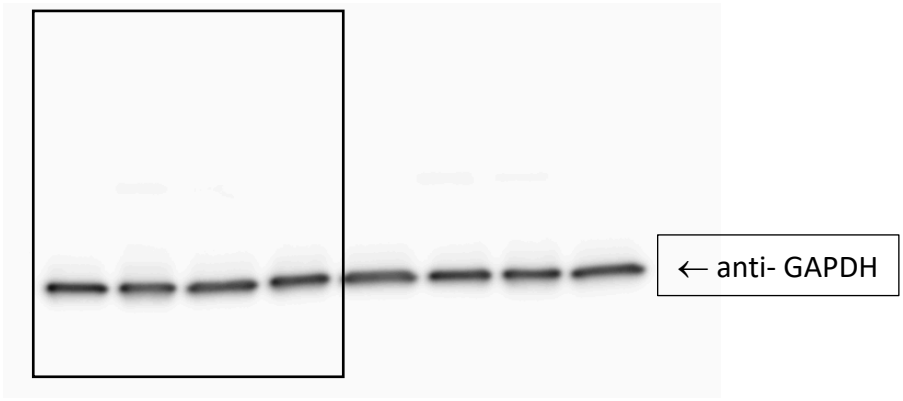


ii. Stromal cells

a. 15 MIN exposure for anti-pSTAT3 and anti-GAPDH



b. 3 MIN exposure for anti-pSTAT3 and anti-GAPDH



c. 1 MIN exposure for anti-STAT3 and anti-GAPDH

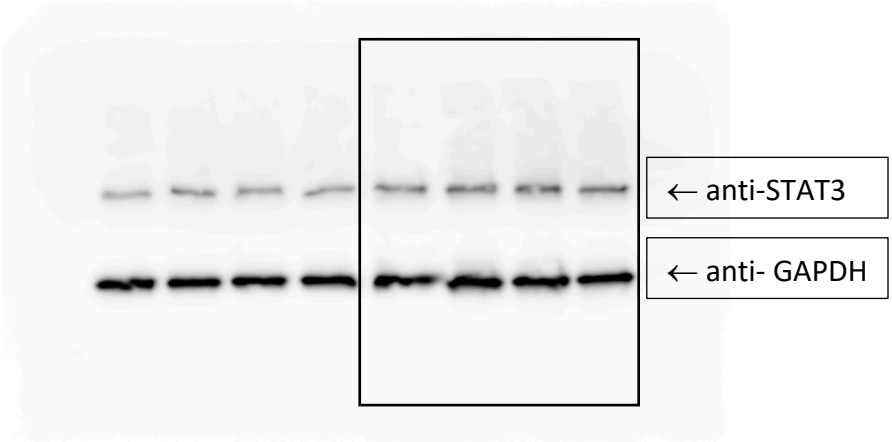


Figure S3 Legend: Unedited representative western blots for phosphorylated STAT3 (pSTAT3) levels, GAPDH, and total-STAT3 for eutopic epithelial (i) and stromal (ii) endometrial cells in control and endometriosis patients following 24 hr treatment.