

**Supplemental Table 2: RT-PCR Primer Sequences.**

<b>Gene</b>	<b>Species</b>	<b>Primer Sequence (5'-3')</b>
<i>Snail</i>	Mouse	Forward - GTC TGC ACG ACC TGT GGA A Reverse - CAG GAG AAT GGC TTC TCA CC
<i>Krt19</i>	Mouse	Forward - TGA CCT GGA GAT GCA GAT TG Reverse - CCT CAG GGC AGT AAT TTC CTC
<i>Zeb1</i>	Mouse	Forward - GCC AGC AGT CAT GAT GAA AA Reverse - TAT CAC AAT ACG GGC AGG TG
<i>Alcam</i>	Mouse	Forward - AAA CTC CCT GAA TGT CTC TGC Reverse - AGA CCA ACG ACA ATT CCC AC
<i>Twist</i>	Mouse	Forward - AGC TAC GCC TTC TCC GTC T Reverse - TCC TTC TCT GGA AAC AAT GAC A
<i>Cox2</i>	Mouse	Forward - CAA AAG AAG TGC TGG AAA AGG T Reverse - GGA TGA ACT CTC TCC GTA GAA GA
<i>TBP</i>	Mouse	Forward - GGC GGT TTG GCT AGG TTT Reverse - GGG TTA TCT TCA CAC ACC ATG A
<i>SNAIL</i>	Human	Forward - GCT GCA GGA CTC TAA TCC AGA Reverse - ATC TCC GGA GGT GGG ATG
<i>COX2</i>	Human	Forward - CTT CAC GCA TCA GTT TTT CAA G Reverse - TCA CCG TAA ATA TGA TTT AAG TCC AC
<i>TBP</i>	Human	Forward - GAA CAT CAT GGA TCA GAA CAA CA Reverse - ATA GGG ATT CCG GGA GTC AT

**Supplemental Table 3: Western blot antibody conditions**

Primary Antibody		Secondary Antibody	
Antibody Details	Incubation Details	Antibody Details	Incubation Details
<p>Rabbit anti-Snail (Abcam, ab82846)  RRID AB_1861654  Lot number: GR143900-1  Negative control: untreated im<i>Snail</i> mOSE cells  Positive control: 200 ng/mL doxycycline treated im<i>Snail</i> mOSE cells  Molecular weight: 29 kDa</p>	<p>1:500 in 5% non-fat milk overnight, 4 °C</p>	<p>Donkey anti-Rabbit IgG HRP conjugated (GE Healthcare Life Sciences, NA934)  RRID AB_772206</p>	<p>1:5,000 in 5% non-fat milk 1 hr, room temperature</p>
<p>Mouse anti-Cdh1 (BD Transduction Laboratories, 610182)  RRID AB_397581  Lot number: 4020982  Negative control: mOSE cells treated with TGFB1 (10 ng/mL 96 hr)  Positive control: mOSE cells untreated  Molecular weight: 97 kDa</p>	<p>1:5,000 in 5% non-fat milk overnight, 4 °C</p>	<p>Goat anti-Mouse IgG HRP conjugated (Abcam, ab6728)  RRID AB_955440</p>	<p>1:5,000 in 5% non-fat milk 1 hr, room temperature</p>
<p>Rabbit anti-PSmad2 (NEB Cell Signaling, 3101S)  RRID AB_331673  Lot number: 11  Negative control: mOSE cells untreated  Positive control: mOSE cells treated with TGFB1 (10 ng/mL 6 hr)  Molecular weight: 60 kDa</p>	<p>1:1,000 in 5% BSA overnight, 4 °C</p>	<p>Donkey anti-Rabbit IgG HRP conjugated (GE Healthcare Life Sciences, NA934)  RRID AB_772206</p>	<p>1:2,000 in 5% non-fat milk 1 hr, room temperature</p>
<p>Rabbit anti-PSmad3 (NEB Cell Signaling, 9520S)  RRID AB_2193207  Lot number: 12  Negative control: mOSE cells untreated</p>	<p>1:500 in 5% BSA overnight, 4 °C</p>	<p>Donkey anti-Rabbit IgG HRP conjugated (GE Healthcare Life Sciences, NA934)  RRID AB_772206</p>	<p>1:2,000 in 5% non-fat milk 1 hr, room temperature</p>

<p>Positive control: mOSE cells treated with TGFB1 (10 ng/mL 6 hr) Molecular weight: 50 kDa</p>			
<p>Rabbit anti-Smad2 (Invitrogen, 511300) RRID AB_2533896 Lot number: 1344396A Negative control: N/A Positive control: mOSE cells untreated Molecular weight: 60 kDa</p>	<p>1.0 µg/mL in 5% non-fat milk overnight, 4 °C</p>	<p>Donkey anti-Rabbit IgG HRP conjugated (GE Healthcare Life Sciences, NA934) RRID AB_772206</p>	<p>1:5,000 in 5% non-fat milk 1 hr, room temperature</p>
<p>Rabbit anti-Smad3 (Invitrogen, 511500) RRID AB_2533897 Lot number: 1267151A Negative control: N/A Positive control: mOSE cells untreated Molecular weight: 48 kDa</p>	<p>1.25 µg/mL in 5% non-fat milk overnight, 4 °C</p>	<p>Donkey anti-Rabbit IgG HRP conjugated (GE Healthcare Life Sciences, NA934) RRID AB_772206</p>	<p>1:5,000 in 5% non-fat milk 1 hr, room temperature</p>
<p>Rabbit anti-Cox2 (Abcam, ab15191) RRID AB_2085144 Lot number: GR164486-2 Negative control (western blot): N/A Negative control (IHC): mOSE cells around non-ovulating sites Positive control (western blot): mOSE cells untreated Positive control (IHC): Granulosa cells Molecular weight: 69 kDa</p>	<p>1:1,000 in 5% non-fat milk overnight, 4 °C</p>	<p>Donkey anti-Rabbit IgG HRP conjugated (GE Healthcare Life Sciences, NA934) RRID AB_772206</p>	<p>1:5,000 in 5% non-fat milk 1 hr, room temperature</p>
<p>Mouse anti-β-Actin (Sigma, A2228) RRID AB_476697 Lot number: 096M4855V Negative control: N/A Positive control: mOSE cells untreated Molecular weight: 42 kDa</p>	<p>1:80,000 in 5% non-fat milk 1 hr, room temperature</p>	<p>Goat anti-Mouse IgG HRP conjugated (Abcam, ab6728) RRID AB_955440</p>	<p>1:20,000 in 5% non-fat milk 1 hr, room temperature</p>
<p>Mouse anti-GAPDH (Abcam,</p>	<p>1:80,000 in 5%</p>	<p>Goat anti-Mouse IgG</p>	<p>1:20,000 in 5%</p>

<p>ab8245)  RRID AB_2107448  Lot number: 168317  Negative control: N/A  Positive control: mOSE cells  untreated  Molecular weight: 35 kDa</p>	<p>non-fat milk 1  hr, room  temperature</p>	<p>HRP conjugated  (Abcam, ab6728)  RRID AB_955440</p>	<p>non-fat milk 1  hr, room  temperature</p>
<p>Rabbit anti-AKT (Cell  Signaling, 9272S)  RRID AB_329827  Lot number: 27  Negative control: N/A  Positive control: mOSE cells  untreated  Molecular weight: 56 kDa</p>	<p>1:1,000 in 5%  non-fat milk  overnight, 4 °C</p>	<p>Donkey anti-Rabbit IgG  HRP conjugated (GE  Healthcare Life  Sciences, NA934)  RRID AB_772206</p>	<p>1:5,000 in 5%  non-fat milk 1  hr, room  temperature</p>
<p>Rabbit anti-AKT (Cell  Signaling, 9271S)  RRID AB_329825  Lot number: 14  Negative control: N/A  Positive control: mOSE cells  untreated  Molecular weight: 60 kDa</p>	<p>1:1,000 in 5%  BSA overnight,  4 °C</p>	<p>Donkey anti-Rabbit IgG  HRP conjugated (GE  Healthcare Life  Sciences, NA934)  RRID AB_772206</p>	<p>1:5,000 in 5%  non-fat milk 1  hr, room  temperature</p>