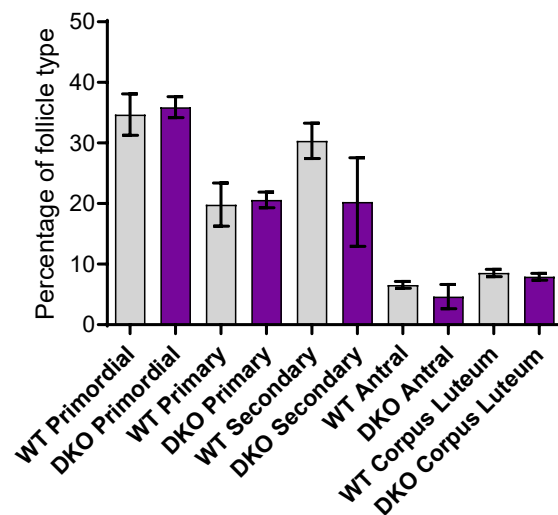


A

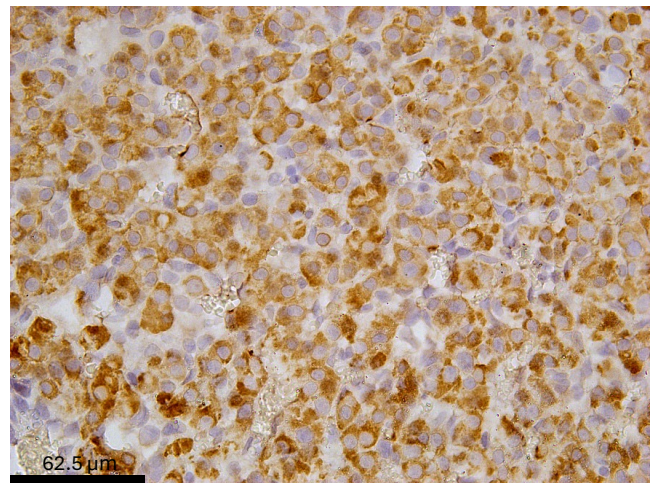
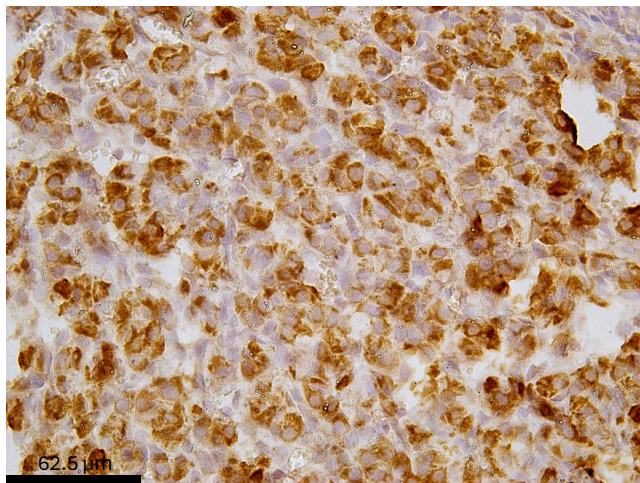
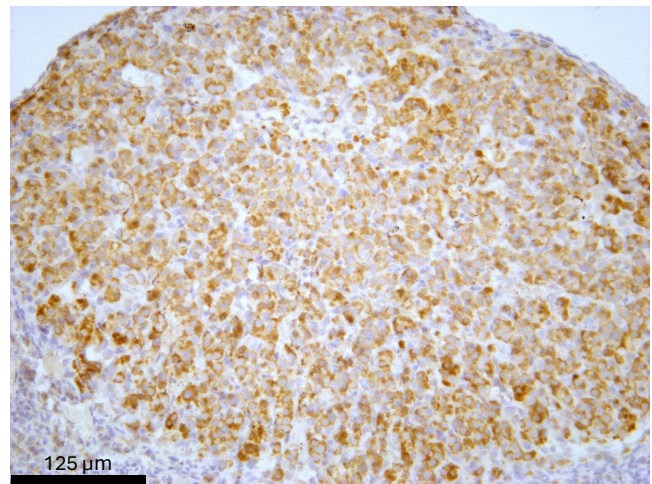
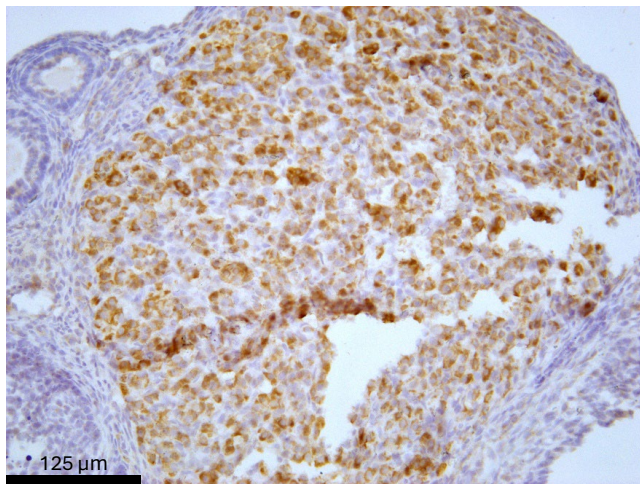


B

Control

DKO

HSD17B7



**Supplemental Figure S1.** Histological analysis of folliculogenesis and luteinization in *Amhr2-Cre Insr* and *Igf1r* DKO mice. (A) Ovaries were serially sectioned and total follicle numbers counted. Data are expressed as mean  $\pm$  SEM percentage of each follicle type in the total follicle pool. (B) Immunohistochemistry localization of the luteal cell marker HSD17B7. No oocyte retention in WT or DKO mice was observed in *Amhr2-Cre* propagated mutants as was prevalent in *Pgr-Cre* mediated deletions of both *Insr* and *Igf1r*.

**Table S1. PCR Primers used for analysis of *Amhr2*-Cre insulin receptor knockout mice**

**Genotyping Primers**

Gene		Sequence 5'-3'	Length (bp)	TM
<i>Insr</i> -flox	For	GAT GTG CAC CCC ATG TCT G	279 (WT)	62
	Rev	CTG AAT AGC TGA GAC CAC AG	313 (mutant)	
<i>Igf1r</i> -flox	For	CTT CCC AGC TTG CTA CTC TAG G	124 (WT)	62
	Rev	CAG GCT TGC AAT GAG ACA TGG G	220 (mutant)	
<i>Amhr2</i> -Cre	Amhr2-For	AGG TGG GTC AGA CCC AGA GCC	223 (WT)	66
	Amhr2-Rev	GCA TGA CCT CCT TCC TGG ATT	500 (Cre)	
	Cre-For	CCG CTT CCT CGT GCT TTA CGG TAT		
	Cre-Rev	ACC TAG TAG AGA GGC TGC GTT GA		

**Primers used for qPCR**

Accession number	Gene		Sequence of forward and reverse primers 5'-3'
	<i>Lhcgr</i>	For Rev	GAGACGCTTTATTCTGCCATCT CAGGGATTGAAAGCATCTGG
	<i>Pgr</i>	For Rev	CTCCGGGACCGAACAGAGT ACAACAACCCCTTTGGTAGCAG
	<i>Ptgs2</i>	For Rev	CTGACCCCCAAGGCTCAAAT ATTTAAGTCCACTCCATGGCCC
	<i>Star</i>	For Rev	GAAAGCCAGCAGGAGAACG GCGGTCCACAAGTTCTTCAT
	<i>Cyp11a1</i>	For Rev	TGTGATTTTCAATAAAGCTGATGA TTCTTGAAGGGCAGCTTGTT
	<i>Cyp17a1</i>	For Rev	TTTATGCCTGAGCGCTTCTT GCAGCAAGGCCATGAAGATA
	<i>Cyp19a1</i>	For Rev	CTGTTGTGGGTGACAGAGACA GCCGTCAATTACGTCATCCT
	<i>Hsd3b1</i>	For Rev	AACAATTTAACAGCCCTCCTAAG GCACCAACATCTTGATGATCC
	<i>Hsd17b1</i>	For Rev	AGGTGACGGAGCTCTTCTTG CGACATAGCTGCTGCCACT
	<i>Hsd17b7</i>	For Rev	GGGCCAAAAGATGGACATAG AGGAACGCCTACATCAGCTC
	<i>Rpl19</i>	For Rev	TGCCTCTAGTGTCCTCCGC ATCCGAGCATTGGCAGTACC