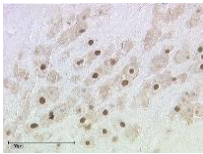
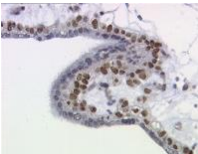
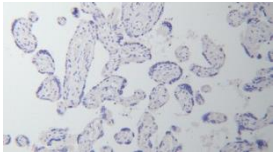
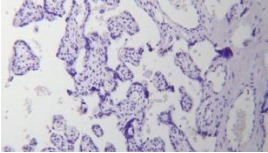
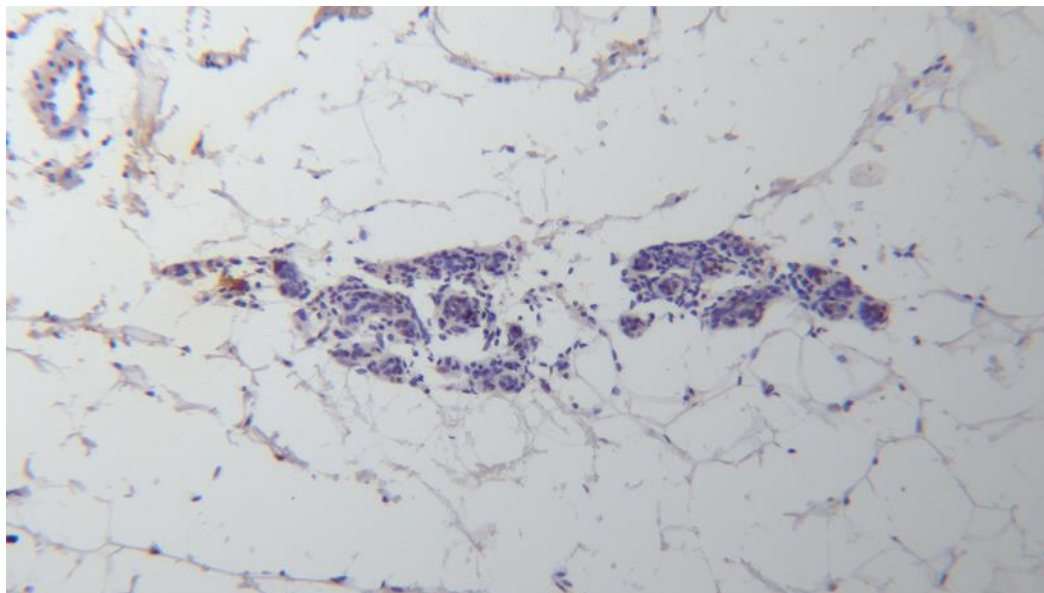


Supplementary Table S1

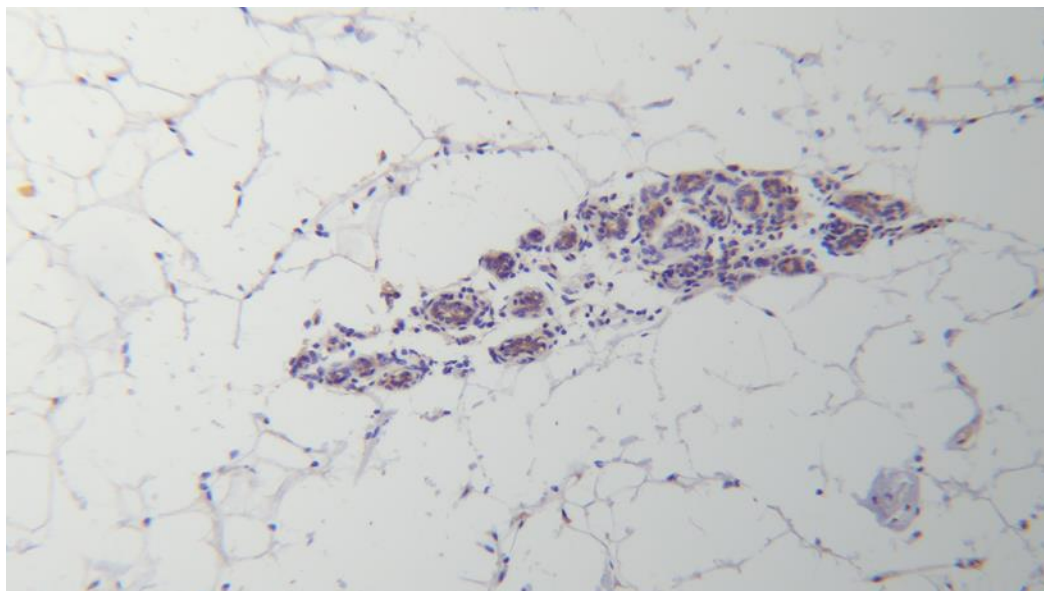
	PPAR $\gamma$	RXR $\alpha$
Positive controls	 Placenta	 Placenta
Negative controls	 Placenta	 Placenta
materials	<p><b>Primary antibody:</b> Anti-PPAR gamma; Rabbit IgG polyclonal. Conc: 1mg/ml Company: Abcam Order number: ab59256</p> <p><b>Detection System:</b> ZytoChem Plus HRP Polymer System (Mouse/Rabbit) (Zytomed; No. POLHRP-100)</p> <p><b>Chromogen Substrate Solution:</b> Liquid DAB+ Substrate Chromogen System (Dako; Order No. K3468).</p>	<p><b>Primary antibody:</b> Anti RxR alpha; clone K8508 (mouse IgG2a); Conc: 1 mg/ml. Company: Perseus Proteomics Order number: PP-K8508-10</p> <p><b>Detection system:</b> Vectastain Elite mouse -IgG kit (Linaris; No.PK-6102).</p> <p><b>Chromogen Substrate Solution:</b> Liquid DAB+ Substrate Chromogen System (Dako; Order No.K3468).</p>
Staining Protocol	<ol style="list-style-type: none"><li>1. Deparaffinize in xylene</li><li>2. Blocking: <b>20 min in 3% H<sub>2</sub>O<sub>2</sub> in methanol.</b></li><li>3. Demask by heat pretreatment in pressure cooker with sodium citrate buffer pH 6.0</li><li>4. 5 min <b>Blocking Solution.</b></li><li>5. <b>primary antibody</b> 16h overnight at 4°C; dilution: 1:100 in PBS</li><li>6. <b>30 min HRP polymer</b></li><li>7. <b>30 sec. substrate staining with DAB</b></li><li>8. <b>2 min. counterstaining</b></li><li>9. <b>bluing for 5 min in tap water</b></li><li>10. cover with "Eukitt"</li></ol>	<ol style="list-style-type: none"><li>1. Deparaffinize in xylene</li><li>2. Blocking: <b>20 min in 3% H<sub>2</sub>O<sub>2</sub> in methanol.</b></li><li>3. Demask by heat pretreatment in pressure cooker with sodium citrate buffer pH 6.0</li><li>4. <b>3 min. Power Block (BioGenex; No.HK0851008)</b></li><li>5. <b>4°C overnight (16h): primary antibody</b> Dil.: 1:200 in in PBS</li><li>6. <b>30 min secondary antibody</b> = biotinylated Link-Ak, which binds the ABC complex</li><li>7. <b>30 min ABC complex</b></li><li>8. <b>1 min substrate staining with DAB+Chromogen</b></li><li>9. <b>1 min. counterstaining</b></li><li>10. bluing for 3 min in tap water.</li><li>11. Covering with "Eukitt"</li></ol>
Staining	nucleus and cytoplasm	nucleus and cytoplasm

## Supplementary Figure 1

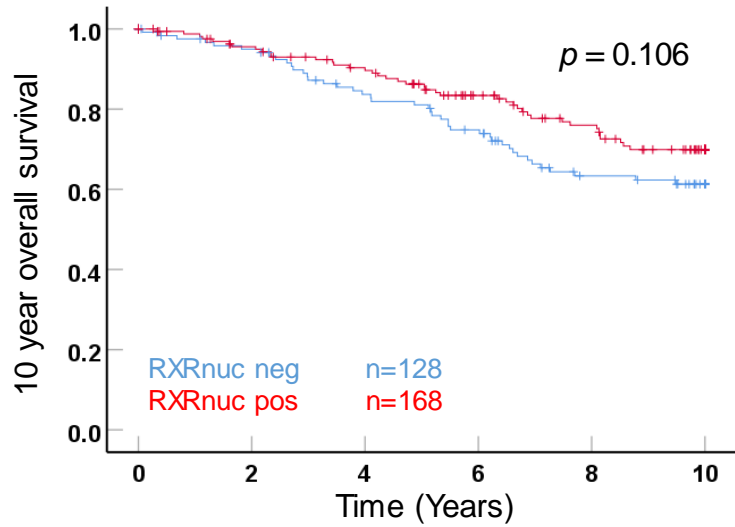
A: RXR in normal breast tissue



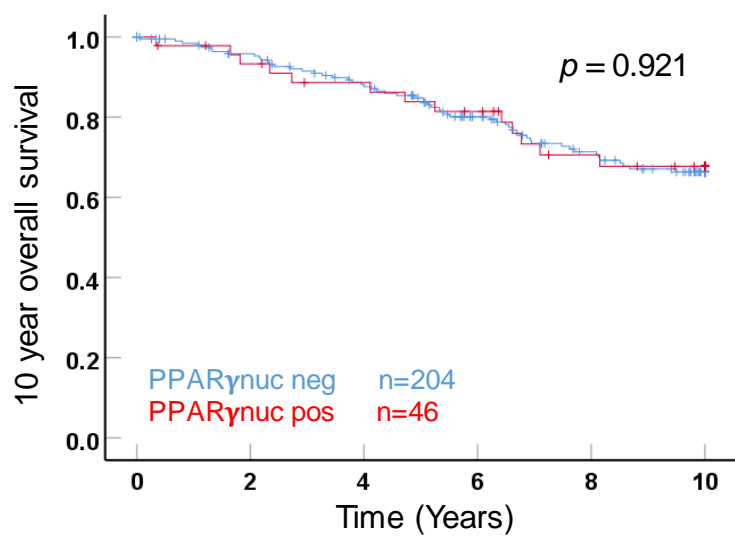
B: PPAR in normal breast tissue



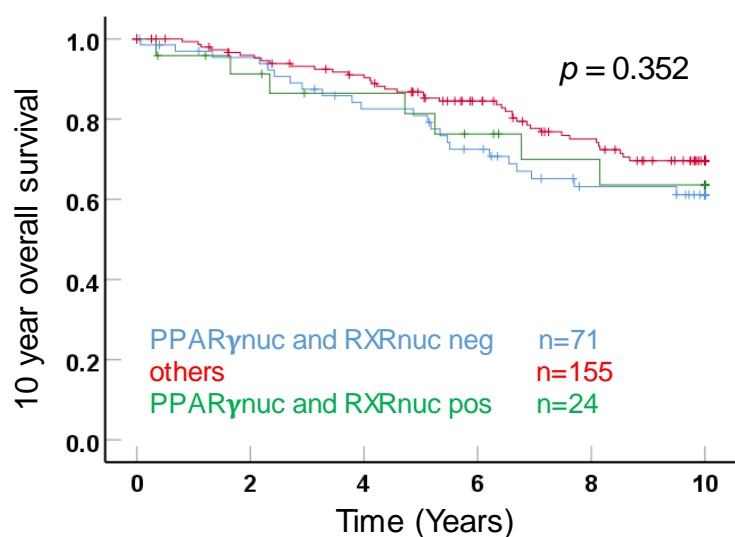
Supplementary figure 2



A: Nuclear RXR expression



B: Nuclear PPARγ expression



C: Combined Nuclear expression RXR and PPARγ

**Supplementary Table S2 (belonging to Figure 2A).**

Subgroups	Total number of cases	Estimate of survival time in years
PPARg low/RXRneg	49	8,817
PPARg low/RXRpos.	70	8,603
PPARg high/RXRneg.	46	8,508
PPARg high/RXRpos.	85	7,704
overall	250	8,311

**Supplementary Table S3 (belonging to Figure 2B).**

Subgroups	Total number of cases	Estimate of survival time in years
Other cases	165	8,64
PPARg high/RXRpos.	85	7,704
overall	250	8,311

**Supplementary Table S4 (belonging to Figure 3A).**

Subgroups	Total number of cases	Estimate of survival time in years
PPARg low/RXRneg	49	5,299
PPARg low/RXRpos.	70	5,412
PPARg high/RXRneg.	46	5,366
PPARg high/RXRpos.	85	4,169
overall	250	4,943

**Supplementary Table S5 (belonging to Figure 3B).**

Subgroups	Total number of cases	Estimate of survival time in years
Other cases	165	5,36
PPARg high/RXRpos.	85	4,169
overall	250	4,943

**Supplementary Table S6 (belonging to Figure 3C).**

Subgroups	Total number of cases	Estimate of survival time in years
Other cases	136	5,369
PPARg high/RXRpos.	63	4,353
overall	199	5,04

**Supplementary Table S7 (belonging to Figure 3D).**

Subgroups	Total number of cases	Estimate of survival time in years
Other cases	82	5,591
PPARg high/RXRpos.	33	4,137
overall	115	5,155