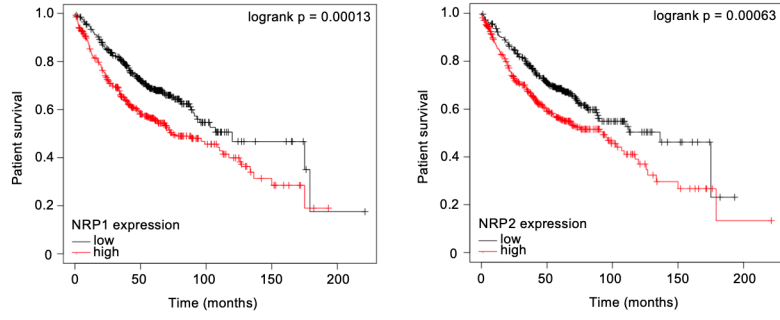
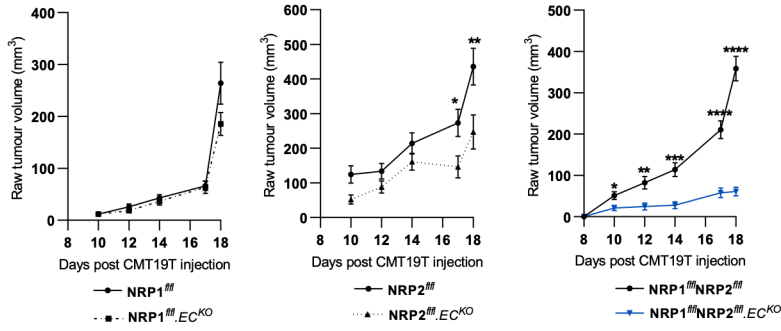


Suppl. Figure 1

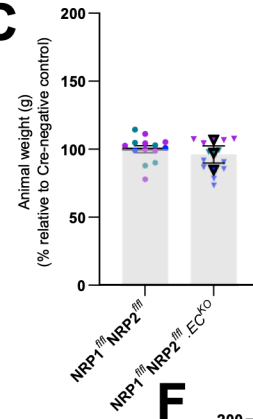
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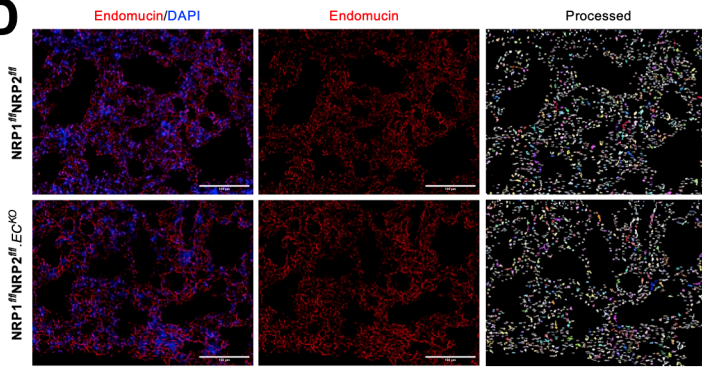
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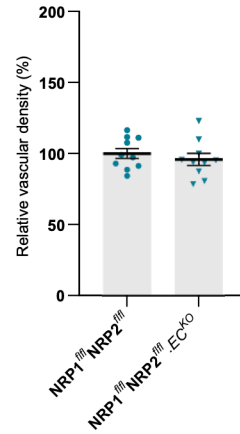
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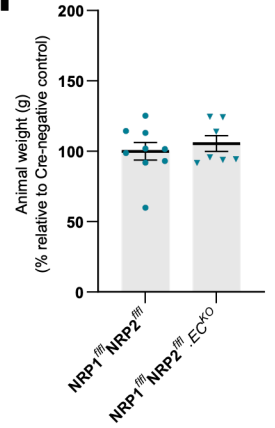
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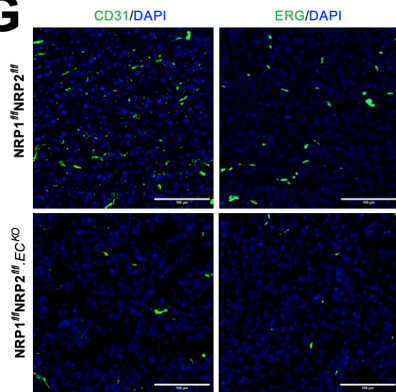
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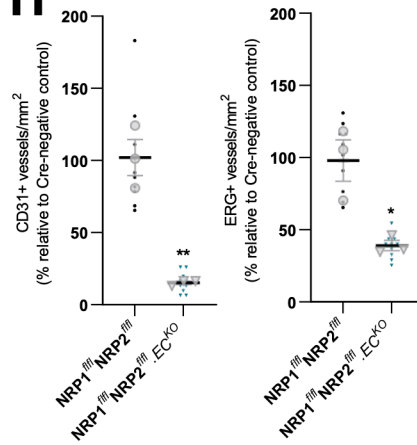
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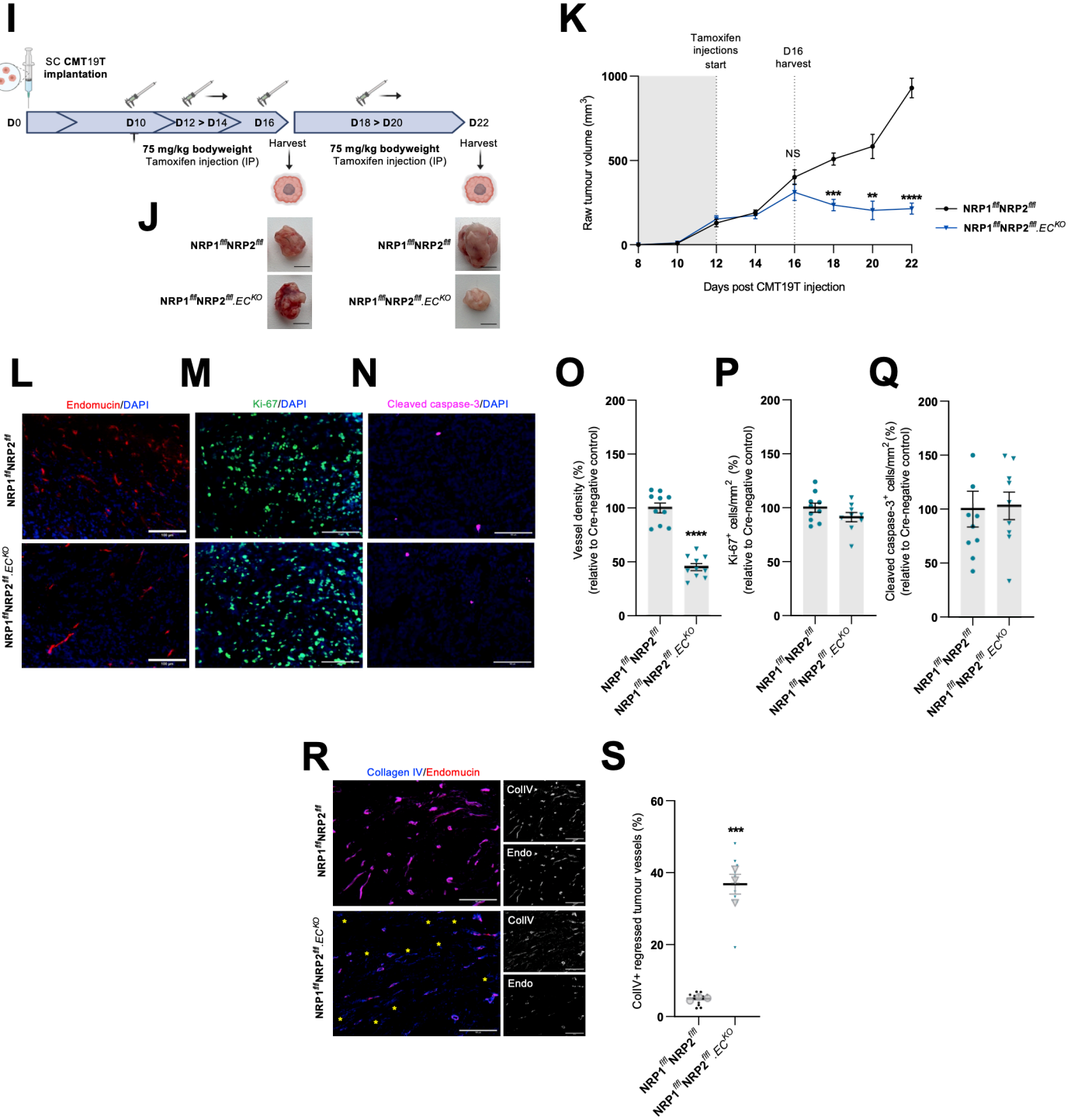
G



H



Suppl. Figure 1 continued



Supplementary Figure 1: A) Determination of prognostic value of NRP1 and NRP2 receptor mRNA expression in lung carcinoma patients (n = 719) using www.kmplot.com. (*Left panel*) Kaplan-Meier survival plot of lung carcinoma patients with high NRP1 mRNA expression (*Affymetrix ID: 210615_at*). (*Right panel*) Kaplan-Meier survival plot of lung carcinoma patients with high NRP2 mRNA expression (*Affymetrix ID: 214632_at*). Respective logrank *p* values are shown. **B)** Raw tumour volume growth kinetics from 10 days post CMT19T injections to harvest. Error bars show mean \pm SEM; N=3 (n \geq 12). **C)** Quantification of mean animal weight measured at point of harvest. Data presented as a percentage of the average animal weight observed in respective littermate controls. Error bars show mean \pm SEM, N=3 (n \geq 12). **D)** Representative lung sections from Cre-negative and Cre-positive animals following tamoxifen treatment showing endomucin⁺ vasculature. Scale bar = 100 μ m. **E)** Quantification of % blood vessel density per mm² from lung sections. Data presented as a percentage of the average % vessel density observed in their Cre-negative littermate controls. Error bars show mean \pm SEM; n \geq 10. **F)** Quantification of mean animal weight measured at point of harvest. Data presented as a percentage of the average animal weight observed in respective littermate controls. Error bars show mean \pm SEM, n \geq 6. **G)** Representative tumour sections from Cre-negative and Cre-positive CMT19T tumours showing CD31 (*left panels*) and ERG⁺ vasculature (*right panels*). Scale bar = 100 μ m. **H)** Corresponding quantification of % blood vessel density per mm². Mean quantification performed on 3x ROIs per tumour section, from 1-3 sections per tumour. Data presented as a percentage of the average % vessel density observed in their Cre-negative littermate controls. Error bars show mean \pm SEM; n \geq 3. **I)** Delayed experimental schematic: tamoxifen-induced activation of Cre-recombinase and thus deletion of targets was employed via the following regime. Cre-positive and Cre-negative littermate control mice received intraperitoneal (IP) injections of tamoxifen (75 mg/kg bodyweight, 2mg/ml stock) from D12 to induce Cre-recombinase activity. CMT19T lung carcinoma cells (1x10⁶) were implanted subcutaneously (SC) into the flank of mice at D0 and allowed to grow until D16/D24. **J)** Representative images of CMT19T tumours harvested on D16/D22 removed from Cre-negative and positive mice. Scale bar shows 5 mm. **K)** Raw tumour volume growth kinetics from 10 days post CMT19T injections to harvest. Error bars show mean \pm SEM; n \geq 6. **L-N)** Representative tumour sections from Cre-negative and Cre-positive D16 tumours showing endomucin⁺ blood vessels (**L**), Ki-67⁺ proliferating cells (**M**), and cleaved caspase-3⁺ apoptotic cells (**N**). Scale bar = 100 μ m. **O-Q)** Quantification of % blood vessel density (**O**), % Ki-67⁺ proliferating cells (**P**), and % cleaved caspase-3⁺ apoptotic cells (**Q**) per mm² from CMT19T tumours. Mean quantification performed on 3x ROIs per tumour section, from 1-3 sections per tumour. Data presented as a percentage of the average % observed in their Cre-negative littermate controls. Error bars show mean \pm SEM; n \geq 9. **R)** Representative tumour sections from Cre-negative and Cre-positive D16 tumours showing ColIV⁺ basement membrane sleeves colocalising with endomucin⁺ blood vessels. Yellow asterix label regressed ColIV⁺ endomucin⁻ vessels. Scale bar = 100 μ m. **S)** Quantification of % vessel regression, performed on \geq 4 ROIs/tumour. Error bars show mean \pm SEM; n \geq 3. Asterix indicate significance.