Rana et. al. Figure S1

Rana et.al. Figure S2

A

Gene targeting construct

B

NUS1^{KO} NUS1^{flox} Cre

C

Rana et. al. Figure S3

Control NgBR^{ECKO}

E8.5

E9.5

Rana et al. S5
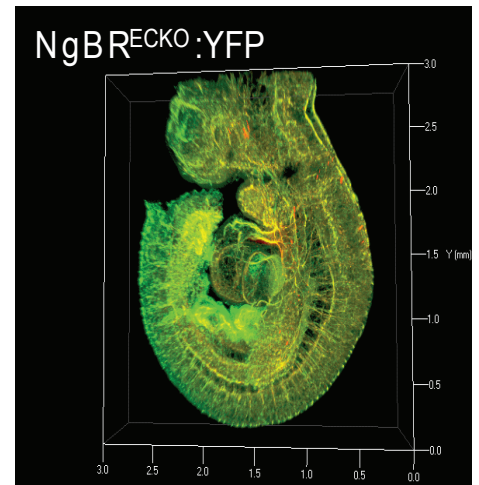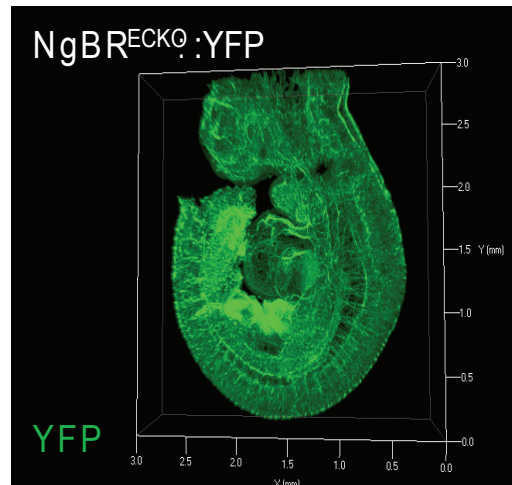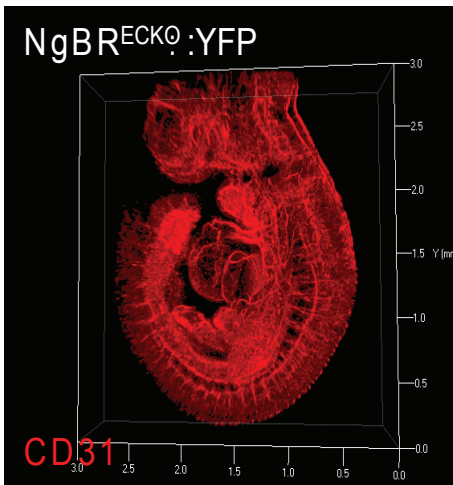
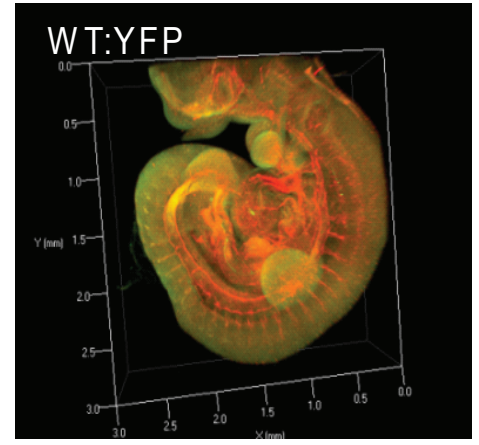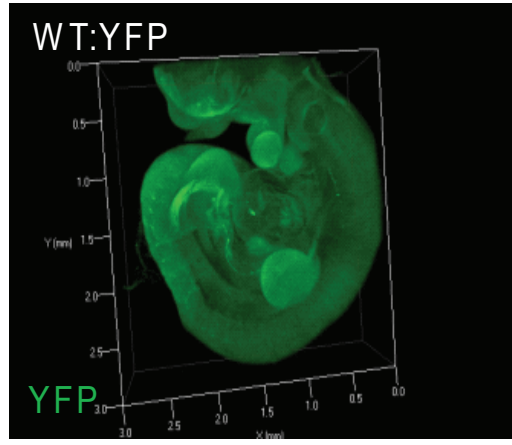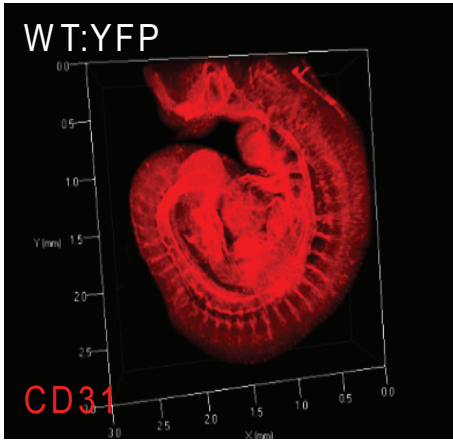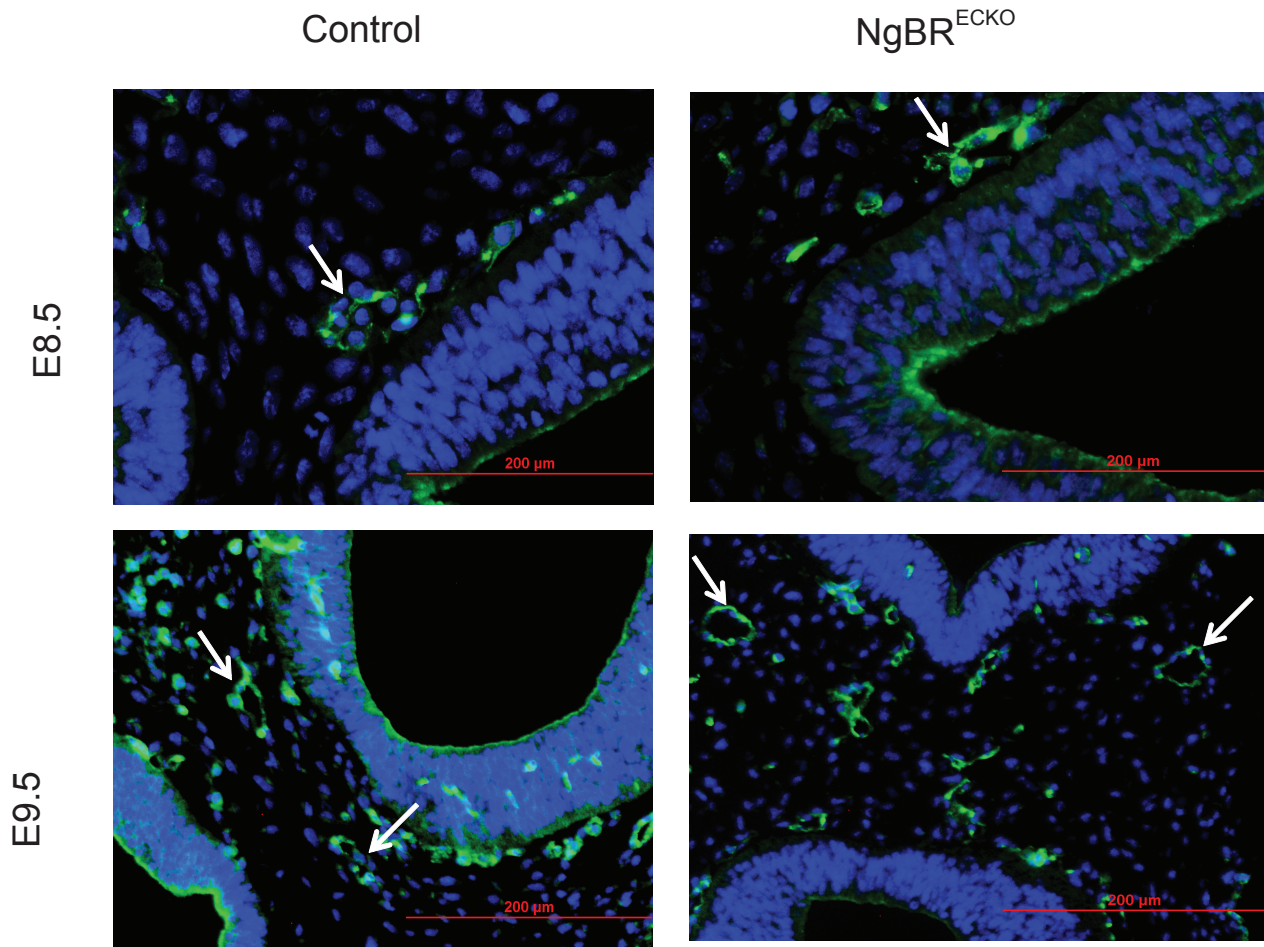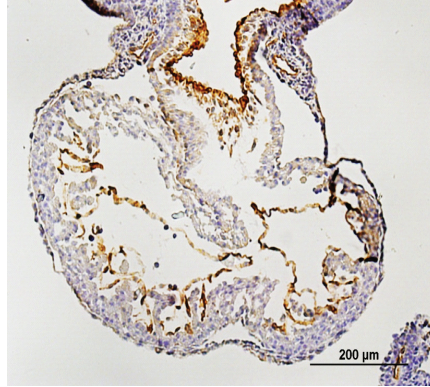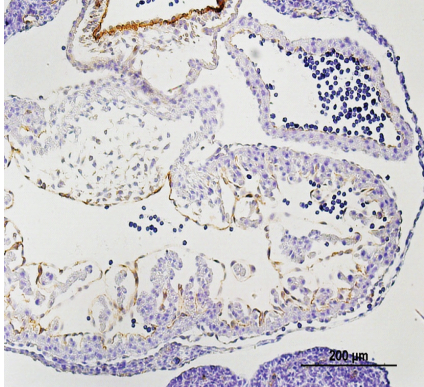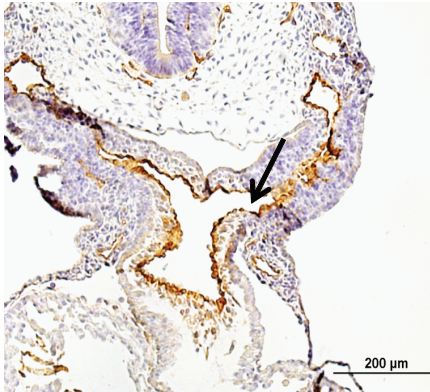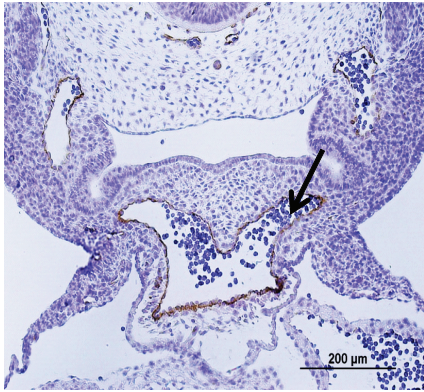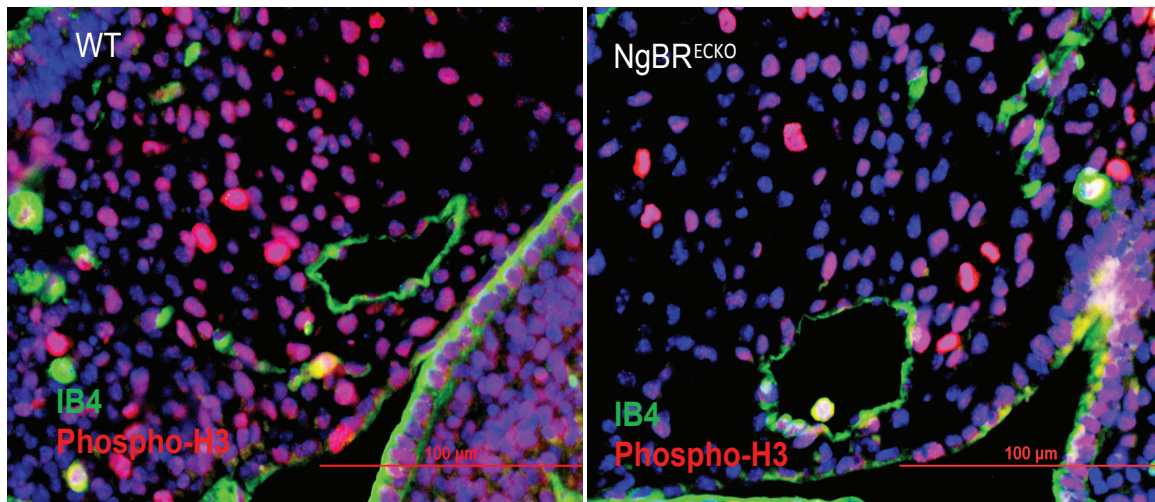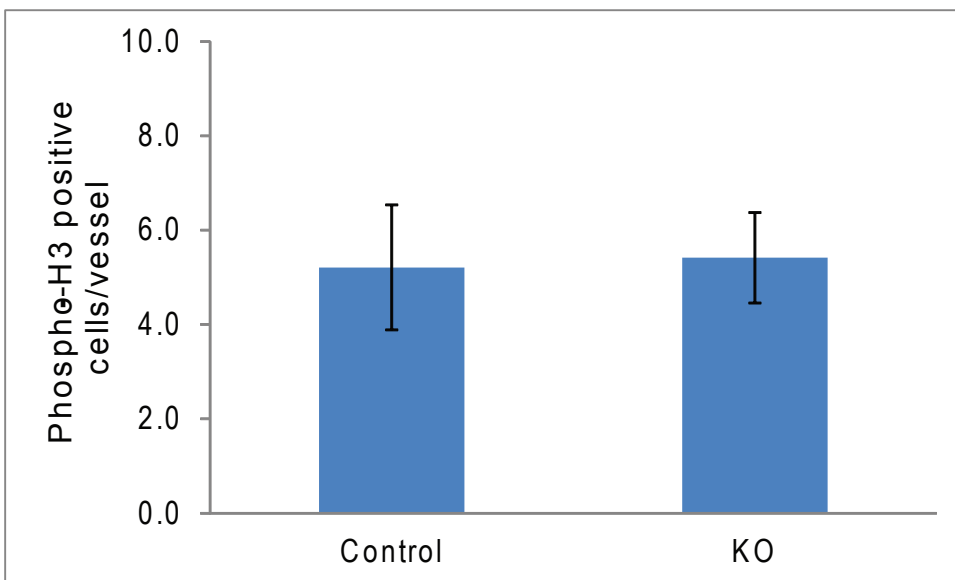Control   NgBR^{ECKO}

Heart

Branchial arch arteries
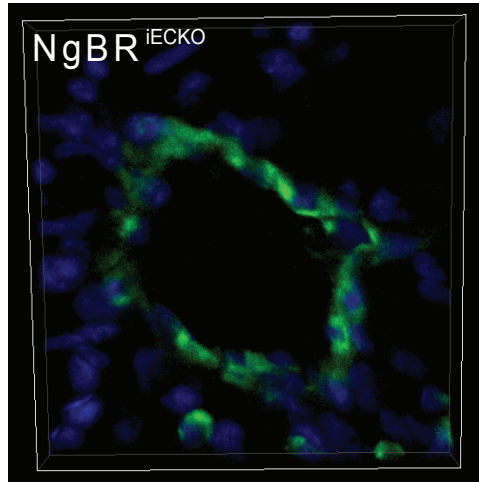
A

B

A

WT

NgBR^iECKO

B

WT

NgBR^iECKO

C

WT

NgBR-CDH5Cre

Rana et.al S8

A NUS1^KO   NUS1^flox

1 2 3 4 5 6   1 2 3 4 5 6

KO allele —

floxed allele
wild-type allele
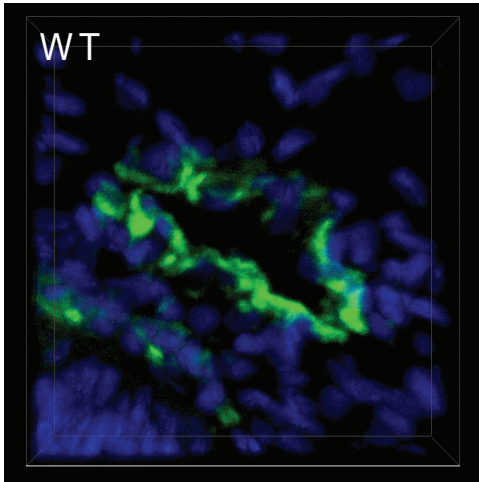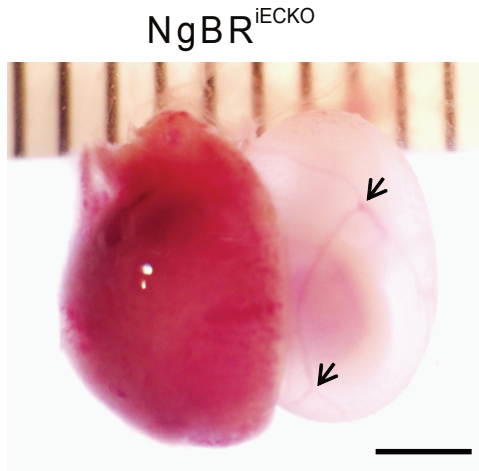
1   - ES -LoxP/LoxP (Homozygous control)
2,3 - ES - LoxP/- (Heterozygous)
4   - ES - -/- day 0 (KO)
5   - ES - -/- day 2 (KO with unmoved MEF)
6   - ES - -/- day 3 (KO) (floating cells)

Rana et.al S9

A

NS   siNgBR

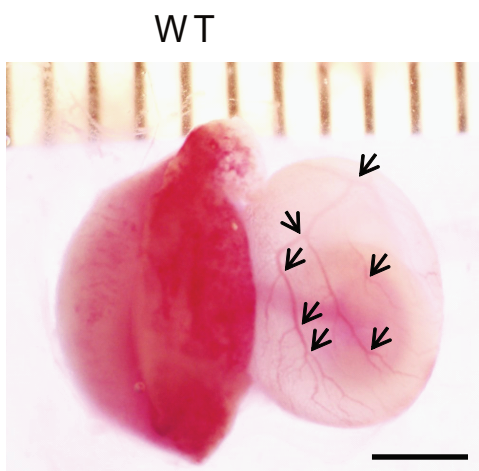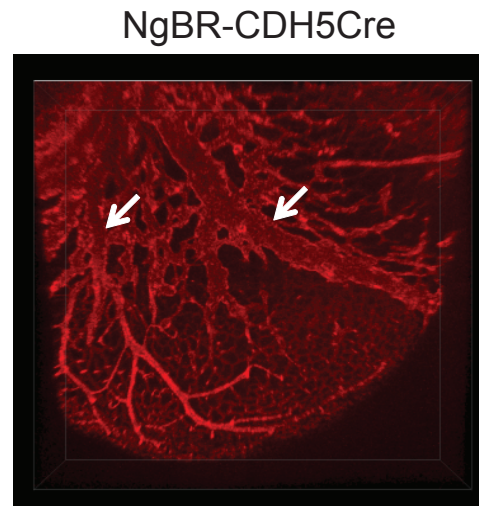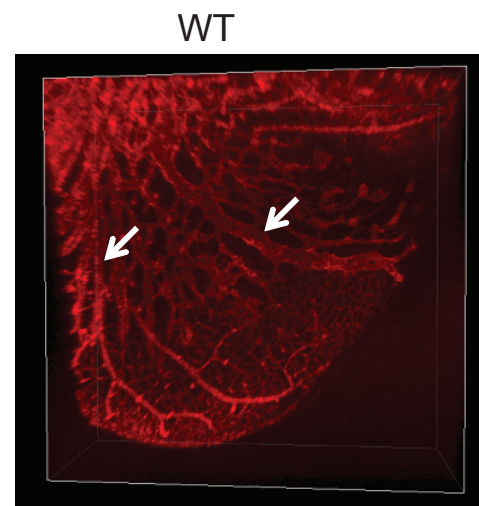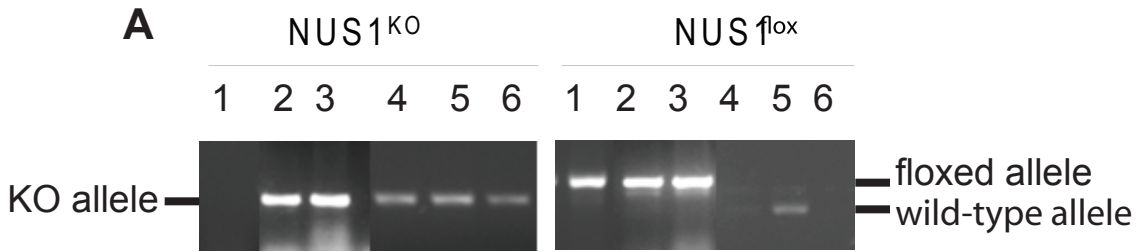0   5   30   0   5   30   AmNogo-B (min.)

phospho-Akt

total-Akt

phospho-Erk

total Erk

NgBR

Hsp90

B

NS   siNgBR

0   5   30   0   5   30   VEGF (min.)

VEGFR2

phospho-Akt

total-Akt

phospho-Erk

total Erk

NgBR

Hsp90