

## SUPPLEMENTAL INFORMATION

Title: Hypoxic culture maintains cell growth of the primary human valve interstitial cells with stemness

### Supplemental table 1

Characteristics of aortic regurgitation patients  
included in cell growth analysis

	Aortic regurgitation (n = 3)
Age, y	49 ± 22.2
Male, n (%)	3(100)
Body mass index	18 ± 2.0
Hypertension, n (%)	6 (100)
Smokers, n (%)	1 (33)
Dyslipidemia, n (%)	0 (0)
Diabetes, n (%)	0 (0)
Coronary artery disease, n (%)	0 (0)
Tricuspid aortic valves, n (%)	3 (100)

Data are given as n (%) or means ± standard deviations.

## Supplemental table 2

Characteristics of aortic stenosis patients  
included in immunohistochemical analysis

	Aortic stenosis
	(n = 6)
Age, years	66 ± 7
Male, n (%)	5(83)
Body mass index	18 ± 3.2
Hypertension, n (%)	6 (100)
Smokers, n (%)	1 (17)
Dyslipidemia, n (%)	2 (33)
Diabetes, n (%)	1 (17)
Coronary artery disease, n (%)	1 (17)
Mean gradient (mmHg)	59 ± 16.8
Tricuspid aortic valves, n (%)	3 (50)

Data are given as n (%) or means ± standard deviations.

**Supplemental table 3**

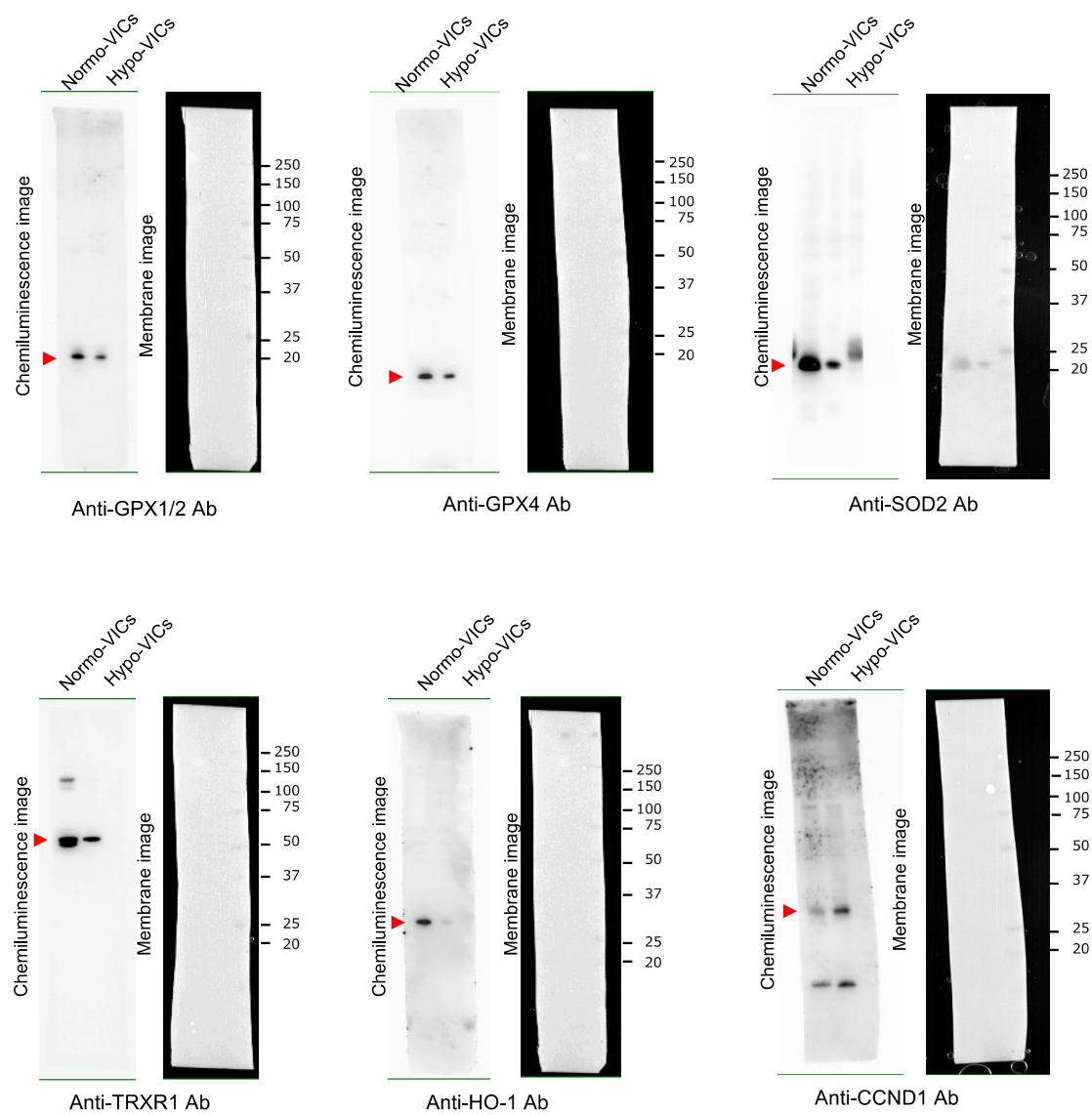
Characteristics of autopsy patients  
included in immunohistochemical analysis

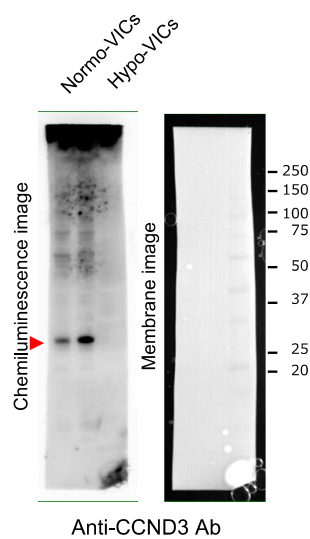
	Autopsy (n = 6)
Age, y	66 ± 13.3
Male, n (%)	2(33)
Hypertension, n (%)	3 (50)
Smokers, n (%)	1 (17)
Dyslipidemia, n (%)	0 (0)
Diabetes, n (%)	0 (0)
Coronary artery disease, n (%)	3 (50)
Time from death to autopsy (hrs)	59 ± 16.8
Tricuspid aortic valves, n (%)	6 (100)

Data are given as n (%) or means ± standard deviations.

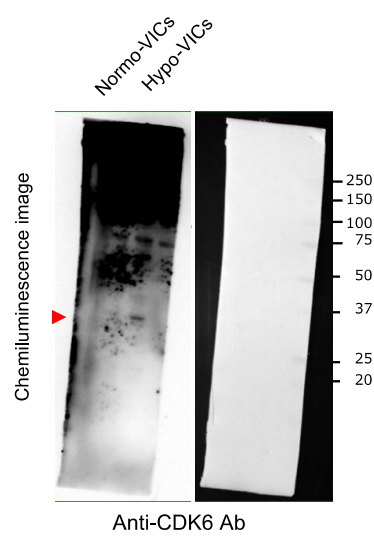
Uncropped western blot image

Full-length blot for figure 3d

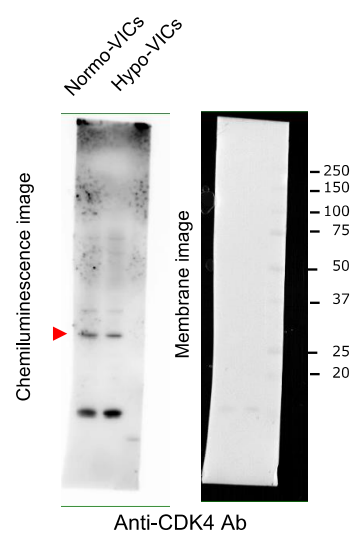




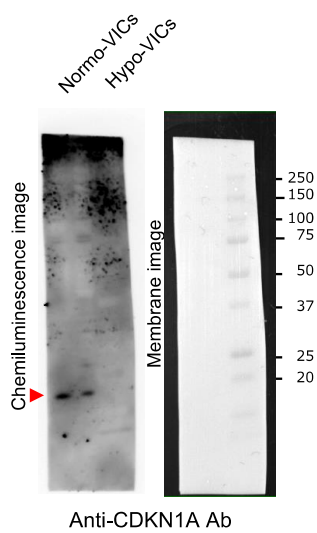
Anti-CCND3 Ab



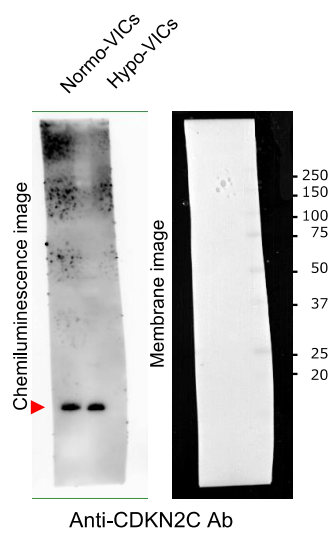
Anti-CDK6 Ab



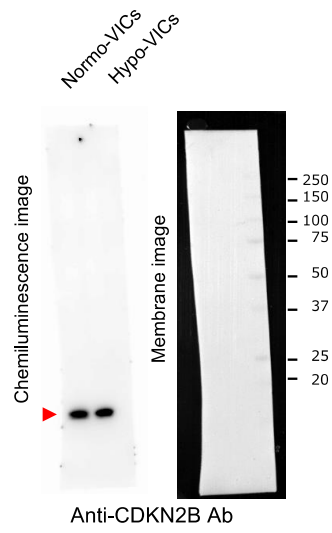
Anti-CDK4 Ab



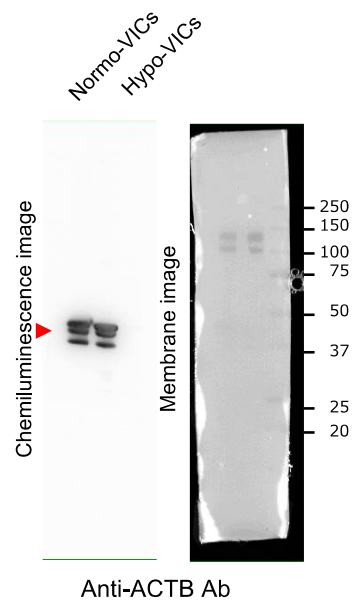
Anti-CDKN1A Ab



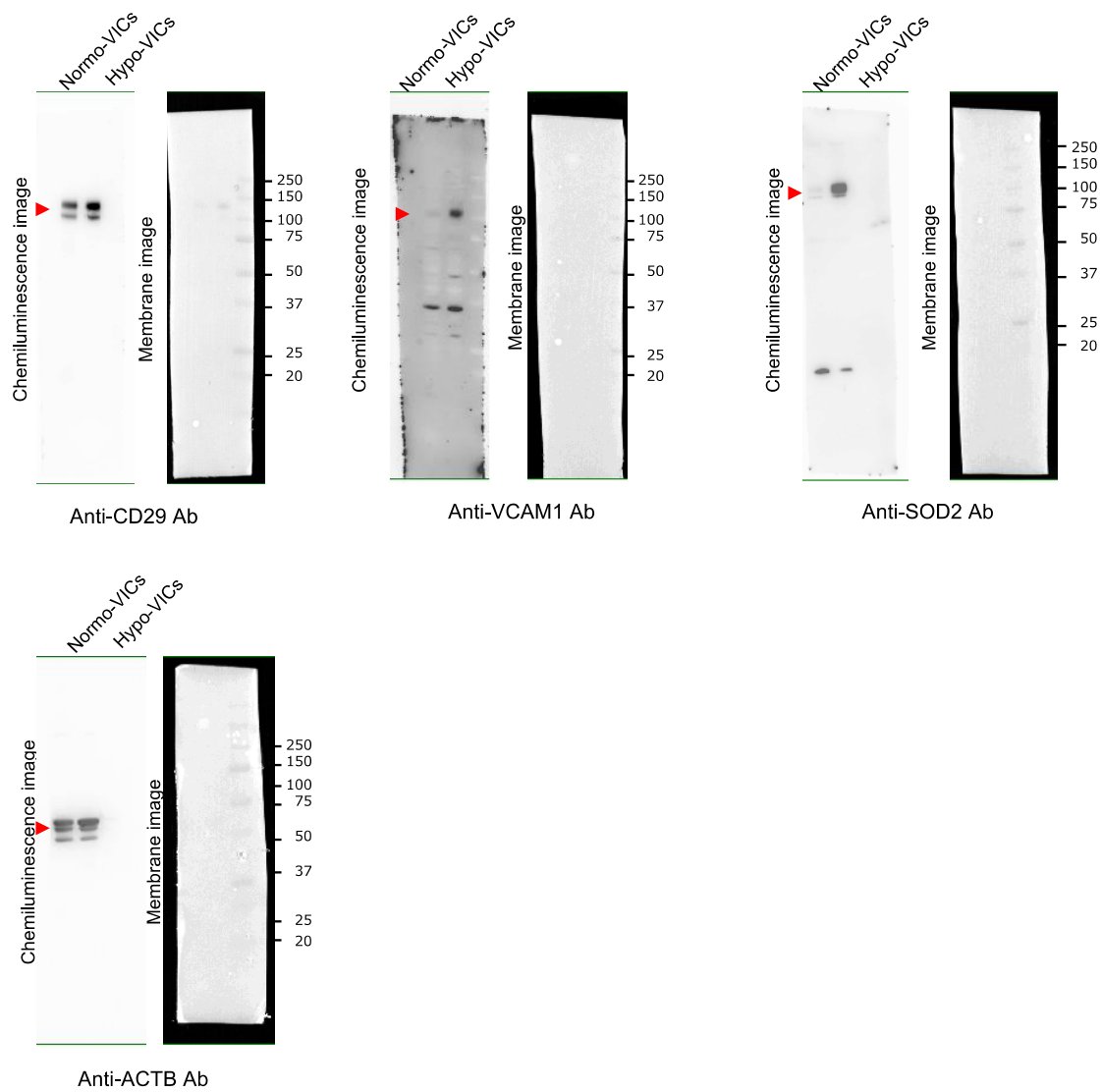
Anti-CDKN2C Ab



Anti-CDKN2B Ab



Full-length blot for figure 4b



Full-length blot for figure 5c

