

Supplementary Materials: Expression of Hemangioblast Proteins in von Hippel-Lindau Disease Related Tumors

Supplementary Table S1: nuclear and cytoplasmic Brachyury staining in VHL hemangioblastomas

signal intensity	0	1	2	3
nuclear staining				
CEREBELLAR	23/26	0/26	0/26	3/26
0% cells	0	0	0	0
< 10% cells	0	0	0	3
10-50% cells	0	0	0	0
50-80% cells	0	0	0	0
> 80% cells	23	0	0	0
median Remelle score 0, mean Remelle score 0.33				
SPINAL	11/26	0/21	1/21	9/21
0% cells	0	0	0	0
< 10% cells	0	0	1	4
10-50% cells	0	0	0	3
50-80% cells	0	0	0	1
> 80% cells	11	0	0	1
median Remelle score 1, mean Remelle score 2.65				
cytoplasmic staining				
CEREBELLAR	21/26	4/26	1/26	0/26
0% cells	0	0	0	0
< 10% cells	0	1	0	0
10-50% cells	0	1	0	0
50-80% cells	0	2	0	0
> 80% cells	21	0	1	0
median Remelle score 0, mean Remelle score 0.63				
SPINAL	18/21	2/21	1/21	0/21
0% cells	0	0	0	0
< 10% cells	0	0	0	0
10-50% cells	0	1	0	0
50-80% cells	0	1	1	0
> 80% cells	18	0	0	0
median Remelle score 0, mean Remelle score 0.55				

Supplementary Table S2: nuclear and cytoplasmic TAL1 staining in VHL hemangioblastomas

signal intensity	0	1	2	3
nuclear staining				
CEREBELLAR	2/26	0/26	12/26	12/26
0% cells	0	0	0	0
< 10% cells	0	0	2	0
10-50% cells	0	0	7	7
50-80% cells	0	0	3	4
> 80% cells	2	0	0	1

median Remelle score 6, mean Remelle score 5.08

SPINAL	2/21	1/21	11/21	7/21
0% cells	0	0	0	0
< 10% cells	0	1	3	1
10-50% cells	0	0	5	3
50-80% cells	0	0	3	2
> 80% cells	2	0	0	1

median Remelle score 4, mean Remelle score 4.67

cytoplasmic staining

CEREBELLAR	5/26	1/26	20/26	0/26
0% cells	0	0	0	0
< 10% cells	0	0	0	0
10-50% cells	0	0	6	0
50-80% cells	0	1	11	0
> 80% cells	5	0	3	0

median Remelle score 6, mean Remelle score 4.48

SPINAL	2/21	6/21	13/21	0/21
0% cells	0	0	0	0
< 10% cells	0	1	0	0
10-50% cells	0	4	4	0
50-80% cells	0	1	7	0
> 80% cells	2	0	2	0

median Remelle score 4, mean Remelle score 4.1

Supplementary Table S3: nuclear and cytoplasmic Brachyury staining in VHL clear cell renal cell carcinomas

signal intensity	0	1	2	3
nuclear staining	11/13	1/13	1/13	0/13
0% cells	0	0	0	0
< 10% cells	0	0	1	0
10-50% cells	0	1	0	0
50-80% cells	0	0	0	0
> 80% cells	11	0	0	0

median Remelle score 0, mean Remelle score 0.31

cytoplasmic staining	10/13	3/13	0/13	0/13
0% cells	0	0	0	0
< 10% cells	0	2	0	0
10-50% cells	0	1	0	0
50-80% cells	0	0	0	0
> 80% cells	10	0	0	0

median Remelle score 0, mean Remelle score 0.31

Supplementary Table S4: nuclear and cytoplasmic TAL1 staining in VHL clear cell renal cell carcinomas

signal intensity	0	1	2	3
nuclear staining	1/13	0/13	6/13	6/13
0% cells	0	0	0	0

< 10% cells	0	0	4	0
10-50% cells	0	0	1	2
50-80% cells	0	0	1	1
> 80% cells	1	0	0	3
median Remelle score 2, mean Remelle score 5				
cytoplasmic staining	10/13	3/13	0/13	0/13
0% cells	0	0	0	0
< 10% cells	0	2	0	0
10-50% cells	0	1	0	0
50-80% cells	0	0	0	0
> 80% cells	10	0	0	0
median Remelle score 2, mean Remelle score 2.75				

Supplementary Table S5: nuclear and cytoplasmic Brachyury staining in VHL pheochromocytomas

signal intensity	0	1	2	3
nuclear staining	8/8	0/8	0/8	0/8
0% cells	0	0	0	0
< 10% cells	0	0	0	0
10-50% cells	0	0	0	0
50-80% cells	0	0	0	0
> 80% cells	8	0	0	0
median Remelle score 0, mean Remelle score 0				
cytoplasmic staining	5/5	2/8	1/8	0/8
0% cells	0	0	0	0
< 10% cells	0	0	1	0
10-50% cells	0	1	0	0
50-80% cells	0	0	0	0
> 80% cells	5	1	0	0
median Remelle score 2, mean Remelle score 2				

Supplementary Table S6: nuclear and cytoplasmic TAL1 staining in VHL pheochromocytomas

signal intensity	0	1	2	3
nuclear staining	5/8	0/8	2/8	1/8
0% cells	0	0	0	0
< 10% cells	0	0	1	1
10-50% cells	0	0	1	0
50-80% cells	0	0	0	0
> 80% cells	5	0	0	0
median Remelle score 0, mean Remelle score 0.86				
cytoplasmic staining	1/8	3/8	4/8	0/8
0% cells	0	0	0	0
< 10% cells	0	2	0	0
10-50% cells	0	0	2	0
50-80% cells	0	0	0	0
> 80% cells	1	1	2	0
median Remelle score 3, mean Remelle score 3.25				

Supplementary Table S7: nuclear and cytoplasmic Brachyury staining in VHL pancreatic neuroendocrine tumours

signal intensity	0	1	2	3
nuclear staining	3/5	0/5	0/5	2/5
0% cells	0	0	0	0
< 10% cells	0	0	0	2
10-50% cells	0	0	0	0
50-80% cells	0	0	0	0
> 80% cells	0	0	0	0
median Remelle score 0, mean Remelle score 1.2				
cytoplasmic staining	4/5	1/5	0/5	0/5
0% cells	0	0	0	0
< 10% cells	0	1	0	0
10-50% cells	0	0	0	0
50-80% cells	0	0	0	0
> 80% cells	0	0	0	0
median Remelle score 0, mean Remelle score 0.2				

Supplementary Table S8: nuclear and cytoplasmic TAL1 staining in VHL pancreatic neuroendocrine tumours

signal intensity	0	1	2	3
nuclear staining	2/5	0/5	3/5	0/5
0% cells	0	0	0	0
< 10% cells	0	0	2	0
10-50% cells	0	0	1	0
50-80% cells	0	0	0	0
> 80% cells	2	0	0	0
median Remelle score 2, mean Remelle score 1.6				
cytoplasmic staining	1/5	3/5	1/5	0/5
0% cells	0	0	0	0
< 10% cells	0	0	0	0
10-50% cells	0	1	0	0
50-80% cells	0	0	1	0
> 80% cells	1	2	0	0
median Remelle score 4, mean Remelle score 3.2				

Supplementary Table S9: nuclear and cytoplasmic Brachyury staining in VHL paragangliomas

signal intensity	0	1	2	3
nuclear staining	1/2	0/2	0/2	1/2
0% cells	0	0	0	0
< 10% cells	0	0	0	1
10-50% cells	0	0	0	0
50-80% cells	0	0	0	0
> 80% cells	1	0	0	0
median Remelle score 2, mean Remelle score 1.5				
cytoplasmic staining	1/2	1/2	0/2	0/2
0% cells	0	0	0	0

< 10% cells	0	1	0	0
10-50% cells	0	0	0	0
50-80% cells	0	0	0	0
> 80% cells	1	0	0	0

median Remelle score 1, mean Remelle score 0.5

Supplementary Table S10: nuclear and cytoplasmic TAL1 staining in VHL paragangliomas

signal intensity	0	1	2	3
nuclear staining	1/2	0/2	0/2	1/2
0% cells	0	0	0	0
< 10% cells	0	0	0	0
10-50% cells	0	0	0	1
50-80% cells	0	0	0	0
> 80% cells	1	0	0	0

median Remelle score 3, mean Remelle score 3

cytoplasmic staining	0/2	0/2	2/2	0/2
0% cells	0	0	0	0
< 10% cells	0	0	0	0
10-50% cells	0	0	0	0
50-80% cells	0	0	0	0
> 80% cells	0	0	2	0

median Remelle score 8, mean Remelle score 8