

Supplementary materials

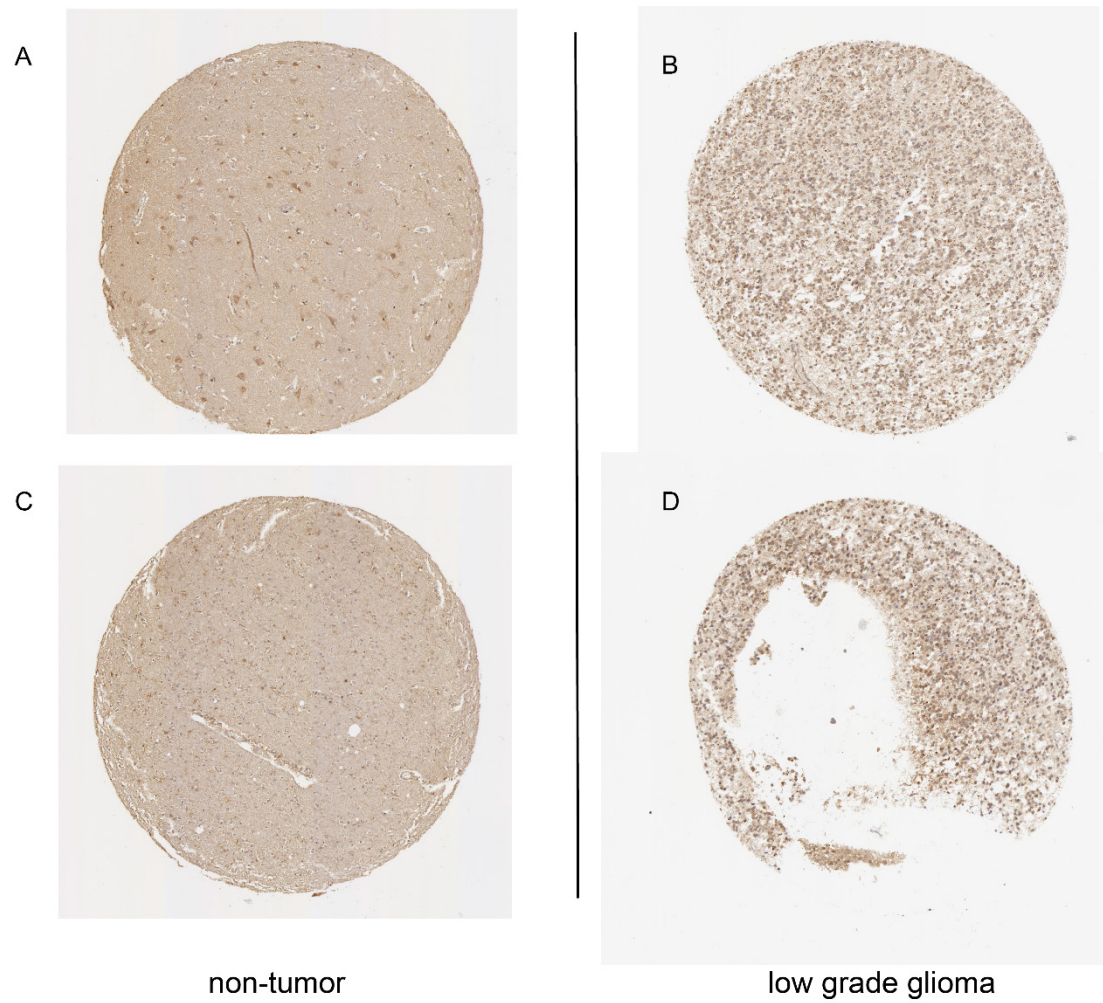


Figure S1. Representative immunohistochemistry staining images of ADPRH in non-tumor brain tissues (A, C), and low grade glioma (B, D).

Table S1. Demographics and characteristics of patients with low-grade glioma.

Variables	TCGA cohort	CGGA cohort	GSE107850 cohort
	(n=404)	(n=552)	(n=193)
Grade			
WHO II	192	255	-
WHO III	212	297	-
Gender			
Male	225	318	109
Female	179	234	84
Age			
≥41	210	265	117
<41	194	287	76
IDH status			
Wild-type	75	137	29

Table S2. Demographics of patients in our own cohort.

ID	Gender	Age	location	Grade
6002588	F	30	Cerebellar Vermis	LGG
1668128	M	44	Right temporal lobe	LGG
1657237	M	55	Left frontal temporal lobe	LGG
1647757	M	50	Right temporal lobe	LGG
1637666	M	56	Spinal Cord	LGG
1634247	M	40	Right frontal lobe	LGG
1625521	M	66	Brain stem	LGG
1617511	M	74	Left parietal lobe	LGG
1614653	F	34	Left frontal temporal lobe	LGG
1607245	M	30	Left frontal lobe	LGG
1603579	F	21	Left frontal lobe	LGG
1595565	F	46	Left frontal lobe	LGG
1590759	M	69	Left frontal lobe	LGG
1587231	F	65	Right frontal lobe	LGG
1586974	F	29	Right frontal lobe	LGG
1584150	M	31	Left frontal lobe	LGG
1581677	M	53	Left parietal lobe	LGG
1575864	F	43	Right frontal lobe	LGG
1572916	F	41	Right frontal lobe	LGG
1565440	M	42	Right frontal lobe	LGG
1555404	F	57	Right temporal lobe	LGG
1554108	F	59	Right frontal lobe	LGG
1547947	M	40	Right temporal lobe	LGG
1545992	M	55	Left temporal lobe	LGG
1537077	M	35	Left parietal lobe	LGG
1536012	F	47	Left frontal lobe	LGG
1533094	M	51	Right temporal lobe	LGG
1532352	M	32	Left frontal temporal lobe	LGG
1527837	M	30	Right frontal temporal lobe	LGG
1526810	F	46	Right parietal lobe	LGG
1597531	F	41	Bilateral frontal lobes	NB
1596317	M	27	Left frontal lobe	NB
1592526	M	47	Left frontal lobe	NB
1591578	M	42	Left frontal lobe	NB
1589735	M	44	Bilateral frontal lobes	NB
1587379	M	57	Right Cerebellum	NB
1582940	F	57	Left frontal parietal lobe	NB
1582844	F	49	Left frontal parietal lobe	NB
1573405	M	50	Right frontal lobe	NB
1573316	F	65	Left temporal lobe	NB

1572794	M	27	Left thalamus	NB
1671777	F	25	Left Cerebellum	NB
1671687	M	33	Right frontal lobe	NB
1671265	F	36	Left frontal lobe	NB
1670530	F	16	Right thalamus	NB
1669226	F	39	Intraventricle	NB
1660396	F	20	Right Cerebellum	NB

Table S3. Univariate Cox regression analysis of OS in TCGA and CGGA cohorts.

Covariates	TCGA cohort (n=404)			CGGA cohort (n=552)		
	HR	95% CI	P	HR	95% CI	P
Grade (ref. WHO II)	3.412	2.196-5.302	<0.001	3.082	2.375-3.999	<0.001
Gender (ref. Female)	1.068	0.721-1.583	0.742	0.907	0.715-1.151	0.422
Age (continuous, years)	1.057	1.040-1.074	<0.001	1.015	1.002-1.027	0.018
IDH status (ref. Mutant)	6.835	4.535-10.302	<0.001	2.300	1.787-2.960	<0.001
ADPRH (continuous)	4.818	3.265-7.109	<0.001	1.949	1.638-2.319	<0.001

OS, overall survival; HR, hazard ratio; CI, confidence interval.

Table S4. Univariate Cox regression analysis of PFS in TCGA and GSE107850 cohorts.

Covariates	TCGA (n=404)			GSE107850 (n=193)		
	HR	95% CI	P	HR	95% CI	P
Grade (ref. WHO II)	1.643	1.198-2.255	0.002	-	-	-
Gender (ref. Female)	0.846	0.621-1.152	0.288	1.36	0.911-2.031	0.133
Age (continuous, years)	1.027	1.015-1.039	<0.001	0.973	0.955-0.991	0.004
IDH status (ref. Mutant)	5.866	4.153-8.285	<0.001	2.675	1.664-4.300	<0.001
ADPRH (continuous)	3.047	2.269-4.091	<0.001	1.874	1.226-2.862	0.004

PFS, progression-free survival; HR, hazard ratio; CI, confidence interval.