

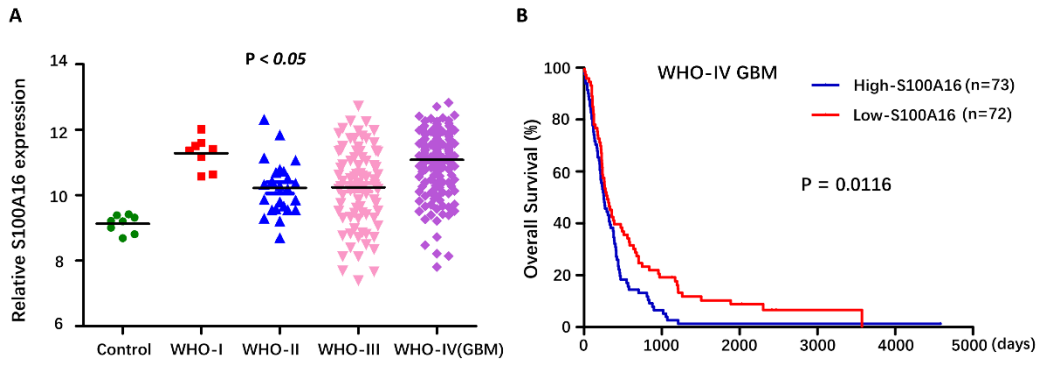
## Supplemental information

**Table S1. Plasmid Sequences were available in this study.**

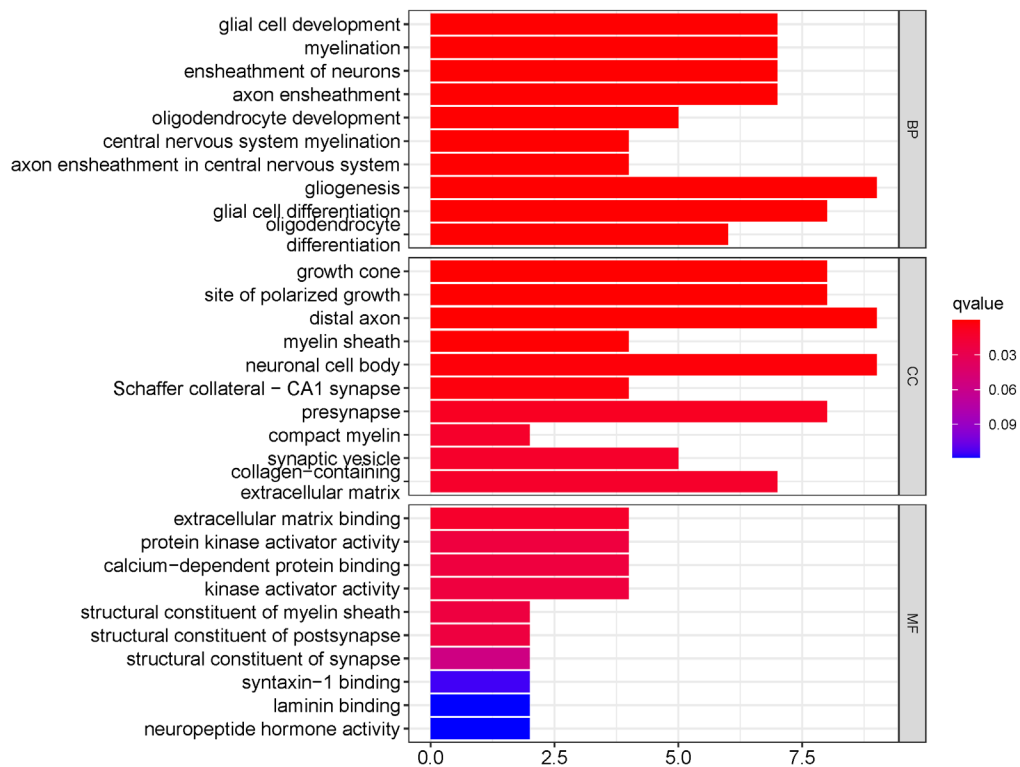
shRNAs or siRNAs	Sequences (5'-3')
sh-S100A16-1	CAGAACCTGGATGCCAATCAT
sh-S100A16-2	CAGTCATTGTCCTGGTGGAAA
sh-NC	TTCTCCGAACGTGTCACGT
sh-LATS1	GATTACAACCTCACCTATTACCTCG AGGTAATAGGTAGAAGTTGTAATC
sh-NC	CCTAAGGTTAAGTCGCCCTCGCT CGAGCGAGGGCGACTTAACCTTAGG
si-NC	GGCUCUAGAAAAGCCUAUGC
siCUL4A	GCATGTGGATTCAAAGTTA
siDCAF1	CGAGAACTGAGTCAAATGAAC
siDDB1	CCAUCGAUGAGA UCCAGAA

**Table S2. Primer Sequences were available in this study.**

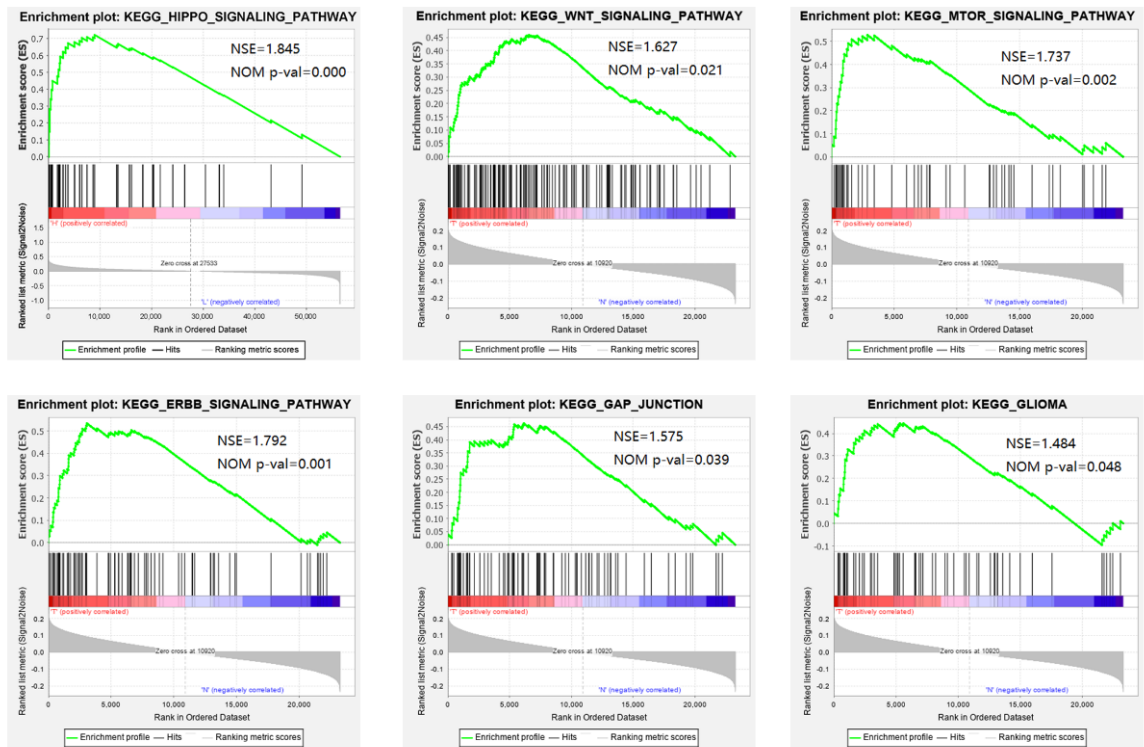
	Forward primer	Reverse primer
S100A16	AAGGCTGCGGATAAGCTCATC	CCGCCTATCAAGGTCCAGT
CTGF	TGGAAGAGAACATTAAGAAGGGCA	TGCAGCCAGAAAGCTCAAAC
Cyr61	GCAAGGAGCTGGGATTCGAT	ATTCCAAAAACAGGGAGCCG
LATS1	AATTTGGGACGCATCATAAAGCC	TCGTCGAGGATCTTGGTAACTC
$\beta$ -actin	AGTGTGACGTTGACATCCGTA	GCCAGAGCAGTAATCTCCTTCT



**Fig. S1: S100A16 expression and survival analysis based on GEO database. (A)** S100A16 mRNA expression levels in normal controls and different grades of glioma tissues; **(B)** Survival analyses of GBM patients with high- and low-S100A16 expression.

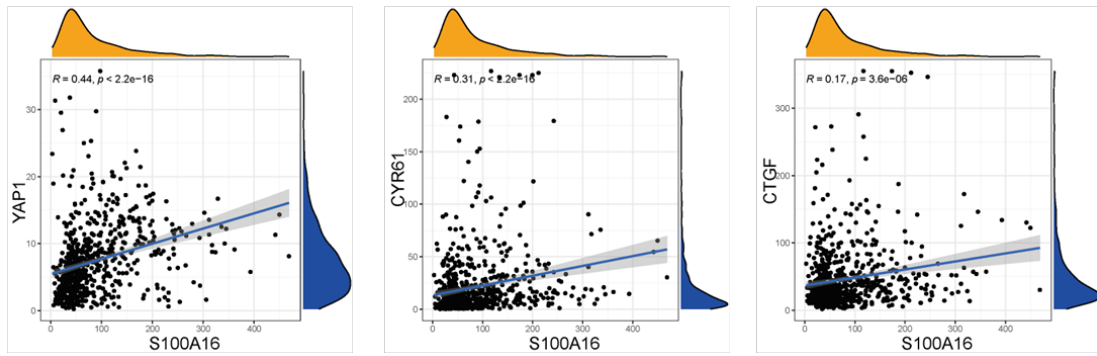


**Fig. S2: GO analyses of DEGs between high- and low-S100A16 groups in glioma, including biological process, cell components, and molecular function.**

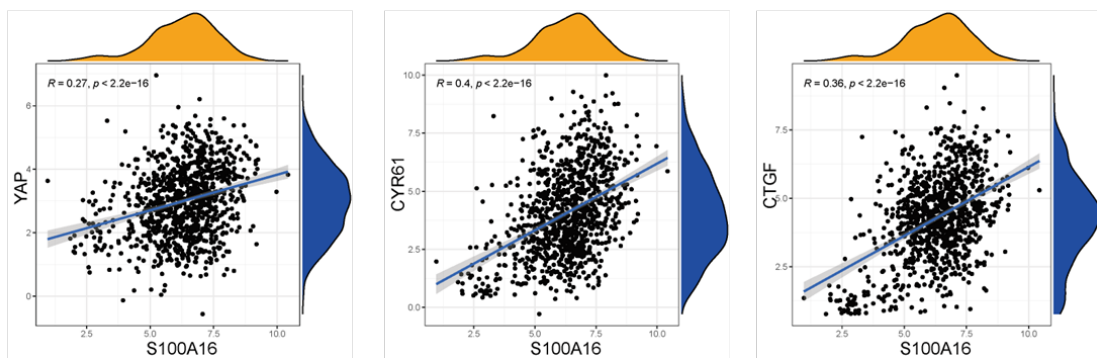


**Fig. S3: Gene set enrichment analysis identifying S100A16-related pathways in Glioma.**

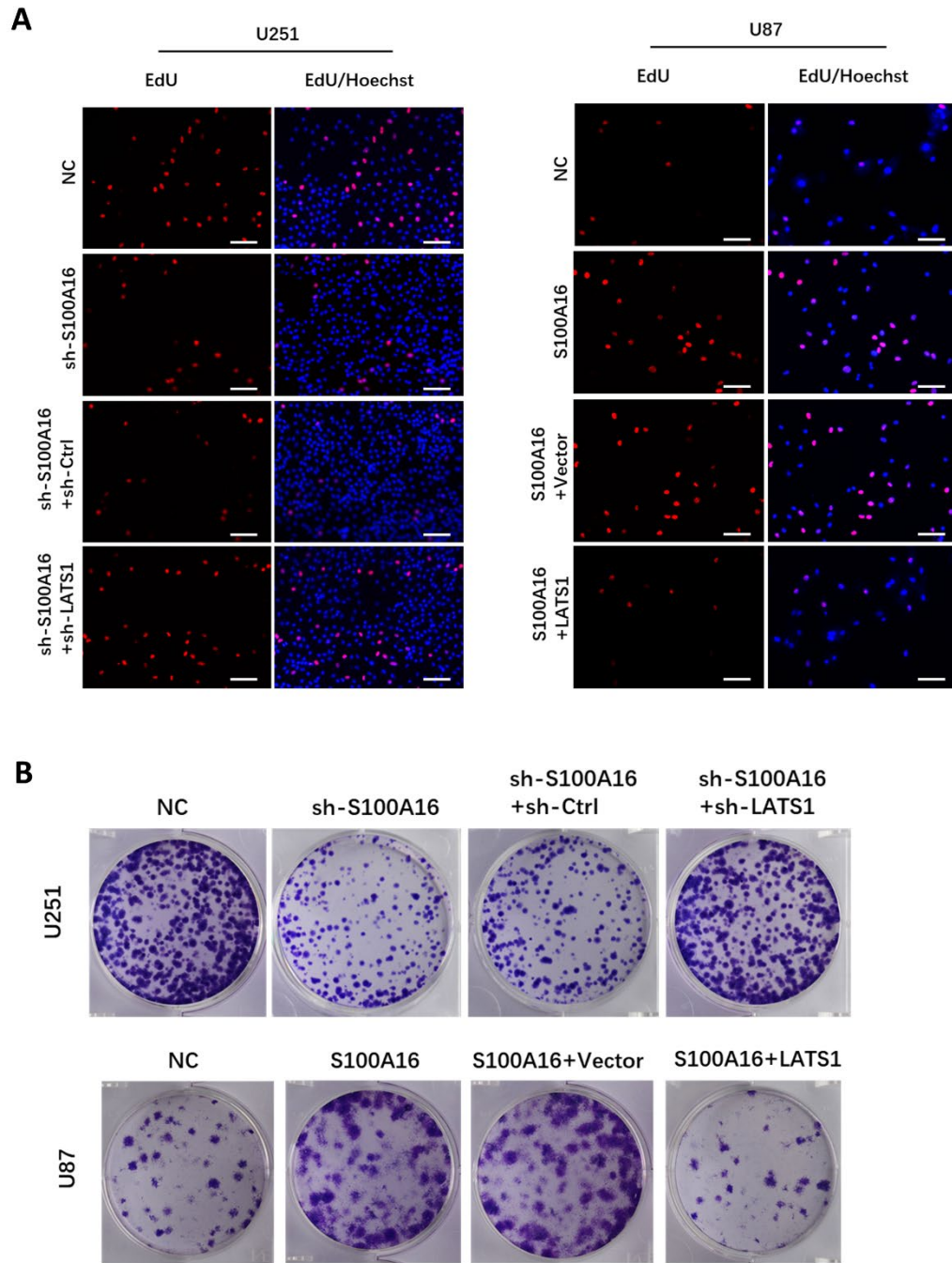
## A TCGA



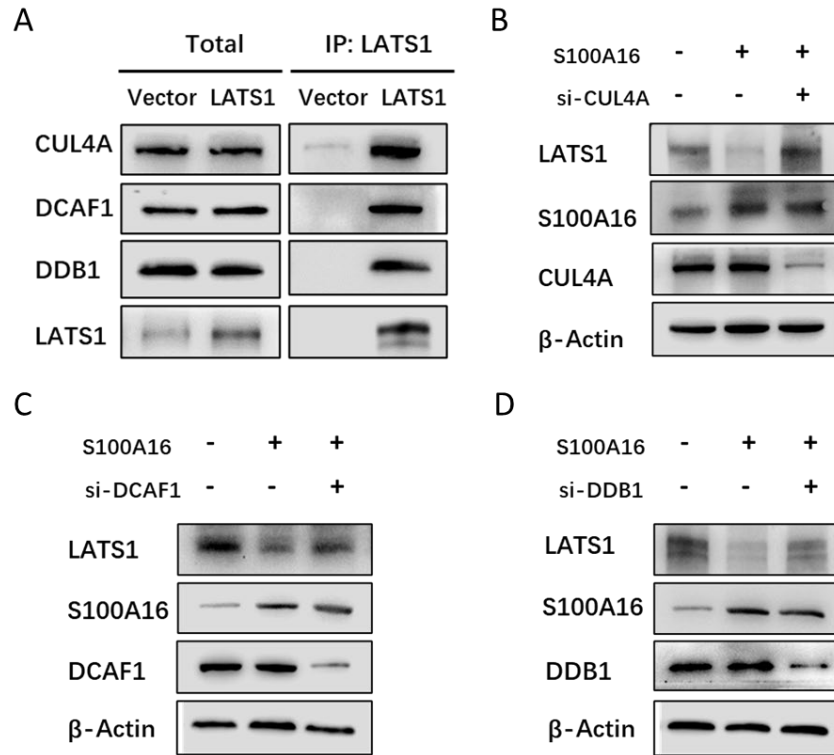
## B CGGA



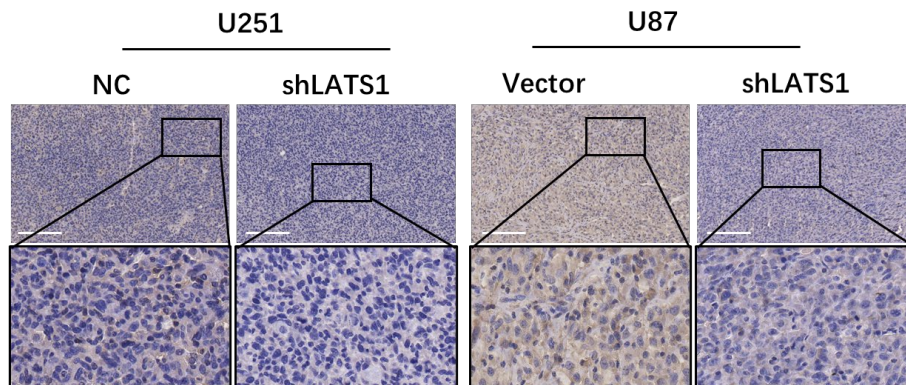
**Fig. S4: Association of S100A16 expression with YAP, CTGF and CYR61 in human glioma samples based on TCGA and CGGA databases.**



**Fig. S5:** (A) EdU images of U251 cells transfected with shS100A16 and shLATS1, or U87 cells transfected with S100A16 and LATS1 plasmids; (B) Representative images of plate formation colonies of the indicated cells.



**Fig. S6: LATS1 Associates CUL4A<sup>DCAF1</sup> ubiquitin ligase complex.** (A) IP experiments with anti-LATS1 were subjected to immunoblotting with indicated antibodies in U87 cells. (B-D) Altered expression of LATS1 protein by S100A16 in U87 cells transfected with si-CUL4A, si-DCAF1, si-DDB1.



**Fig. S7: IHC staining of LATS1 in subcutaneous tumors using glioma cells transfected with shLATS1.**