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| **Table S2. The quantitative analyses of NTS and NTSR1 expression derived from IHC staining** |
| Histology/WHO Grade | Percentage of NTS positive glima cells  | Percentage of NTSR1 positive glima cells |
| n | % | 95%CI | *P* Value | n | % | 95%CI | *P* Value |
| GBM/IV | 10 | 66.4±26.4 | 47.5-85.2 | *p* = 0.001 vs AA*p* < 0.001 vs DA | 10 | 66.3±29.1 | 45.5-87.0 | *p* = 0.087 vs AA*p* = 0.001 vs DA |
| AA/III | 10 | 22.0±15.2 | 11.2-32.9 | *p* = 0.001 vs GBM*p* = 0.385 vs DA | 10 | 39.5±20.6 | 24.7-54.2 | *p* = 0.087 vs GBM*p* = 0.006 vs DA |
| DA/II | 10 | 13.3±10.2 | 6.0-20.5 | *p* < 0.001 vs GBM *p* = 0.385 vs AA | 10 | 11.8±6.24 | 7.3-16.3 | *p* = 0.001 vs GBM *p* = 0.006 vs AA |
| Total | 30 | 33.9±29.7 |  | 30 | 39.2±30.3 |  |