**Table S2: List of antibodies used in this study**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Antibody Name** | **Dilution** | **Source** | **RRID** |
|  Primary antibodies | Rat monoclonal Anti-AGO1 | WB (1:1000)IF (1:500)IP (3 μg/ml) | Sigma SAB4200084  | AB\_10602786 |
| Rabbit polyclonal Anti-AGO2 | WB (1:1000)IF (1:200)IP (3 μg/ml) | Abcam ab32381  | AB\_867543 |
| Mouse monoclonal Anti-AGO2  | WB (1:1000)IF (1:200)IP (2μg/ml) | Abcam ab57113 | AB\_2230916 |
| Rabbit polyclonal Anti-FAM172A | WB (1:1000)IF (1:500)IP (2 μg/ml) | Abcam ab1213 | 64 AB\_11127114 |
| Mouse monoclonal Anti-FLAG tag | WB (1:1000)IP (2μg/ml) | Sigma F1804  | AB\_262044 |
| Mouse monoclonal Anti-GAPDH | WB (1:3000) | Santa Cruz Biotech sc-32233 | AB\_627679 |
| Rabbit polyclonal Anti-GFP | WB (1:3000)IF (1:500) | Abcam ab290 | AB\_303395 |
| Mouse monoclonal Anti-HA tag | WB (1:1000)  | Biolegend 901502 | AB\_2565007 |
| Rabbit polyclonal Anti-Ki67 | IF (1:1000)  | Abcam ab15580 | AB\_443209 |
| Rabbit polyclonal Anti-KPNA2 | WB (1:5000) | Bethyl A300-484A  | AB\_451019 |
| Rabbit polyclonal Anti-KPNB1 | WB (1:2000) | Bethyl A301-803A | AB\_1233062 |
| Rabbit polyclonal Anti-KPNB3 | WB (1:200) | Santa Cruz Biotech sc-55527  | AB\_2127684 |
|  Secondary antibodies | Rabbit polyclonal Anti-Lamin A/C | WB (1:1000) | Abcam ab227176 | - |
| Rat monoclonal Anti-MBP tag | WB (1:1000)IP (2μg/ml) | Covance Research Products MRT-131P | AB\_10720557 |
| Mouse monoclonal Anti-MYC tag | WB (1:500)IF (1:100) | In house hybridoma(9E10) | - |
| Goat polyclonal Anti-MYC tag | WB (1:1000) | Abcam ab9132 | AB\_307033 |
| Rabbit polyclonal Anti-Nucleolin | WB (1:1000)IP (2μg/ml) | Abcam ab50279 | AB\_881762 |
| Donkey Alexa Fluor 488 Anti-Rat IgG | IF (1:500) | JacksonImmunoResearch 712-545-150 | AB\_2340683 |
| Donkey Alexa Fluor 594 Anti-Rabbit IgG | IF (1:500) | JacksonImmunoResearch711-585-152 | AB\_2340621 |
| Donkey Alexa Fluor 647 Anti-Mouse IgG | IF (1:500) | JacksonImmunoResearch715-605-150 | AB\_2340862 |
| Goat Anti-Rat IgG HRP | WB (1:10000) | Santa Cruz Sc-2032 | AB\_631755 |
| Horse Anti-Mouse IgG HRP | WB (1:2000) | Cell signaling 7076 | AB\_330924 |
| Goat Anti-Rabbit IgG HRP | WB (1:500) | Abcam 6721 | AB\_955447 |
| Rabbit Anti-Goat IgG HRP | WB (1:25000) | Bio-Rad 1721034 | AB\_11125144 |