**S3 Table. List of primary antibodies**

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| --- | --- | --- | --- | --- |
|  | **Antigen** | **Source** | **Isotype** | **Dilution** |
| Primary antibody | Afp | R&D systems | Mouse IgG | 1:400 |
| Alb | Abcam | Goat IgG | 1:400 |
| Ck19 | DSHB | Rat IgG2a | 1:200 |
| Ck7 | Abcam | Mouse IgG | 1:200 |
| Cyp1a2 | Abcam | Rabbit IgG | 1:400 |
| E-cad | Abcam | Mouse IgG | 1:200 |
| Epcam | DSHB | Rat IgG2a | 1:100 |
| GFP | Abcam | chicken IgY | 1:1000 |
| Hnf4a | Santa cruz | Rabbit IgG | 1:100 |
| Oct4 | Santa cruz | Goat IgG | 1:400 |
| Vimentin | Abcam | Rabbit IgG | 1:400 |