**Supplementary Figure 1:** Representative images of flow cytometric analysis for cell apoptosis of Ly3-Mock, Ly3-SEMA3F, and Ly7, Ly7-SEMA3F cells (A). representative colony formation in Mock and Sh-SEMA3F cells of Ly1 and TMD8 (B).



**Supplementary Figure 2:** The normalization expression of SEMA3F (A), CD20 (B), EBF1 (C), PAX5 (D), IRF4 (E), TCF3 (F) and IKZF (G) in Ly1-Mock, Ly1-Sh-SEMA3F and Sh-SEMA3F cells treated with inhibitor. \* *P* < 0.05, \*\* *P* < 0.01, \*\*\* *P* < 0.001.

**Supplementary Table 1:** The specific primers for each gene in the study.

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| --- |
| **FOXO1**  F: TCGTCATAATCTGTCCCTACACA  R: CGGCTTCGGCTCTTAGCAAA |
| **EBF1**  F: TGCCGAGTCTTGCTCACAC  R: CATTGACTGTCGTAGACACCAC |
| **PAX5**  F: GTCACAGCATAGTGTCCACTG  R: CCGCTGATGGAGTACGACG |
| **IKZF1**  F: CATCAGCCCGATGTACCAGC  R: CCTCGTTGTTGCTCTCGGT |
| **IRF4**  F: GCTGATCGACCAGATCGACAG  R: CGGTTGTAGTCCTGCTTGC |
| **TCF3**  F: ACGAGCGTATGGGCTACCA  R: GTTATTGCTTGAGTGATCCGGG |
| **SEMA3F**  F: GTGCCTACAACCCCATGTG  R: GTGTCCAGCTTGGGATCGT |
| **MS4A1(CD20)**  F: CCGGCAGAGCCAATGAAAG  R: CAGATGGGTGCATAGATCCCT |