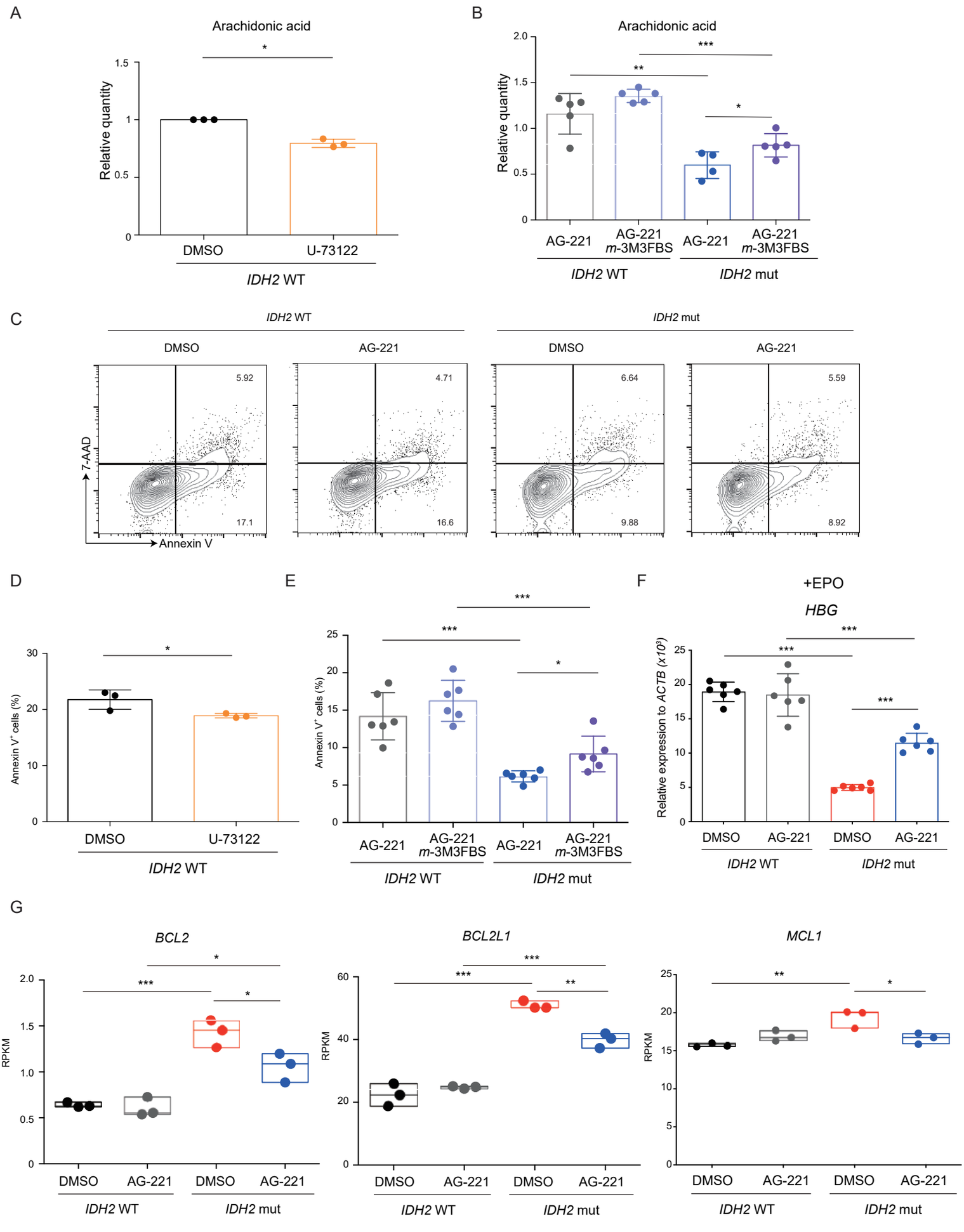
Supplemental Figure-3



Supplemental Figure 3. Apoptosis resistance in *IDH2* mut AML cells via the down-regulation of intracellular arachidonic acid

(A) Quantities of intracellular arachidonic acid measured with GC-MS in *IDH2* WT TF-1 cells treated without (DMSO) or with U-73122 for 10 days. Relative values compared to *IDH2* WT TF-1 cells treated with DMSO were depicted. Statistical analysis was performed with paired two-tailed *t*-test (n=3 from 3 independent experiments). (B) Quantities of intracellular arachidonic acid measured with GC-MS in *IDH2* WT and *IDH2* mut TF-1 cells treated with AG-221 and m3M3FBS at the indicated combinations for 10 days. Relative values compared to *IDH2* WT TF-1 cells treated with DMSO were depicted. (n=4-5 from 4-5 independent experiments). (C) Representative FACS plots of Annexin V staining in *IDH2* WT and mut TF-1 cells treated without (DMSO) or with AG-221 for 3 days. (D) Percentage of Annexin V^+ cells in *IDH2* WT TF-1 cells treated without (DMSO) or with U-73122 for 3 days (n=3). (E) Percentage of Annexin V^+ cells in *IDH2* WT and *IDH2* mut TF-1 cells treated with AG-221 and *m*-3M3FBS at the indicated combinations for 10 days (n=6 from 2 independent experiments). (F) mRNA expression level of *HBG* in *IDH2* WT and mut TF-1 cells cultured with EPO and treated without (DMSO) or with AG-221 for 7 days (n=6 from 2 independent experiments). (G) mRNA expression level of *BCL2*, *BCL2L1* and *MCL1* in *IDH2* WT and *IDH2* mut TF-1 cells treated without (DMSO) or with AG-221 for 10 days. Expression level was represented in RPKM. *$p<0.05$, **$p<0.01$, ***$p<0.001$ (two-tailed t-test).