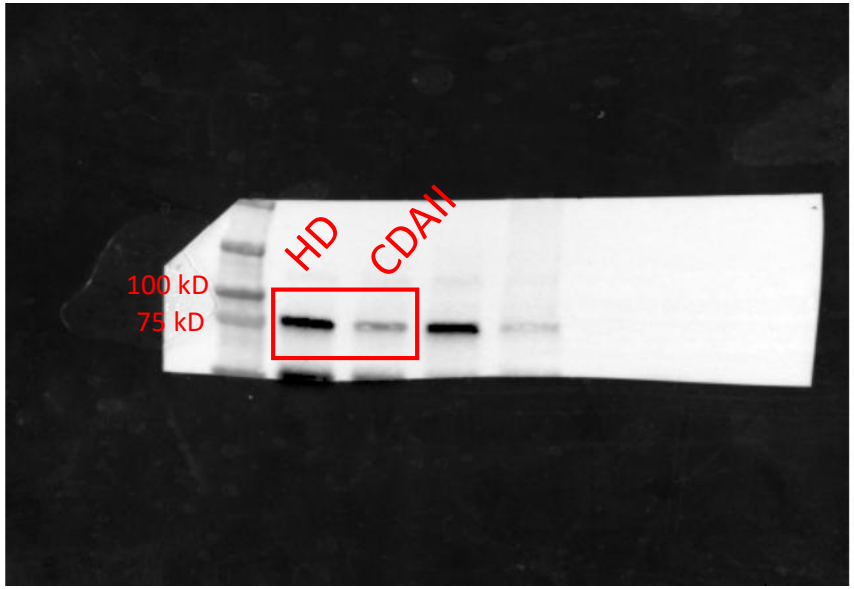
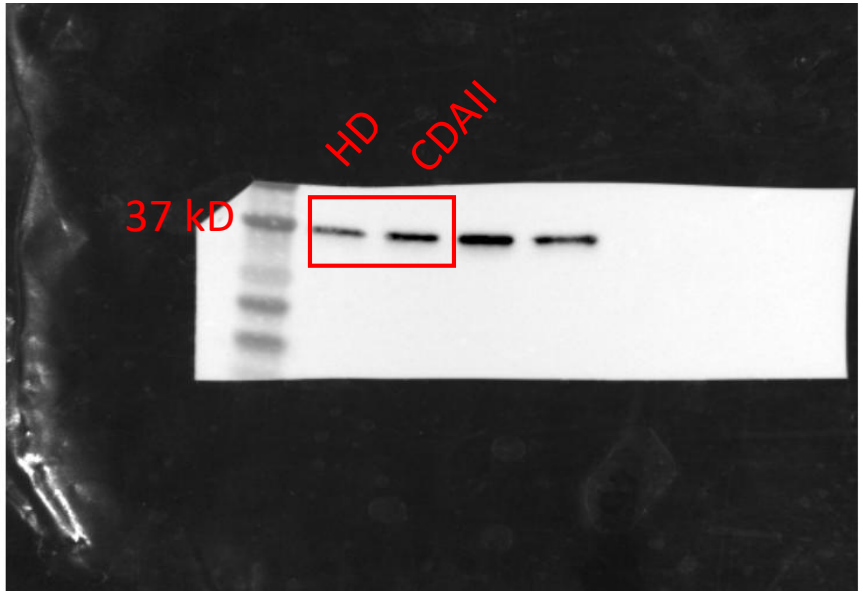
Dessy et al. Supplemental Figure 1 C. Blot image corresponding to the SEC23B protein expression by Western blot for healthy donors and CDAII patients. The red box indicates the cropped region shown in the manuscript.

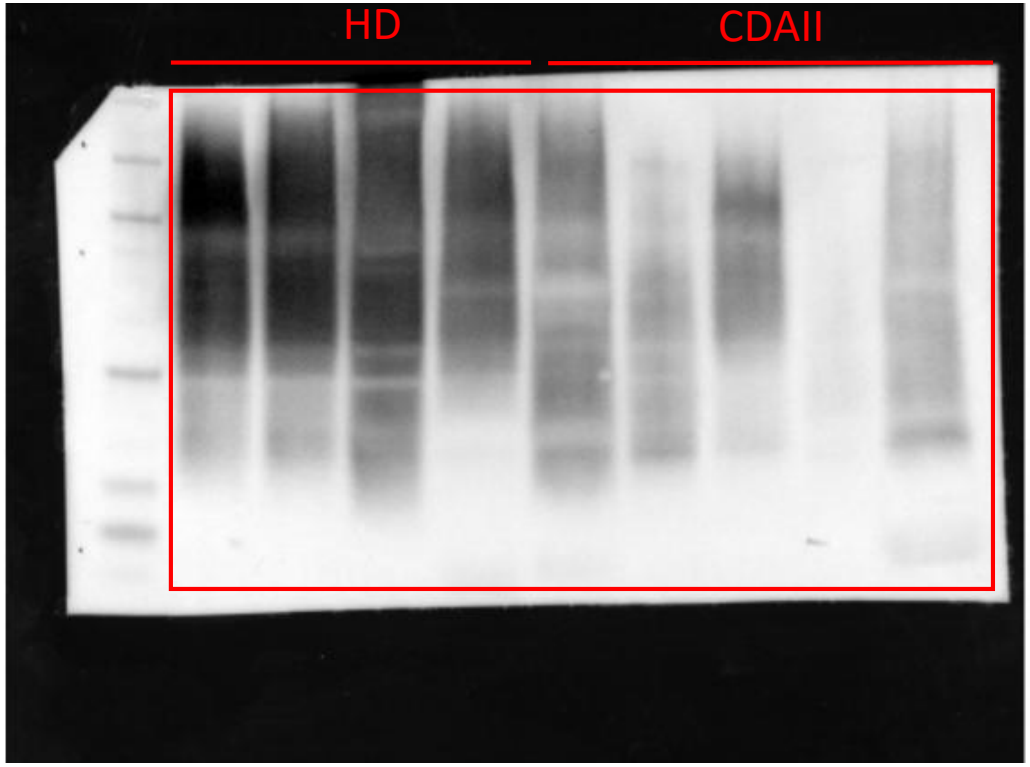
SEC23B protein



GAPDH protein

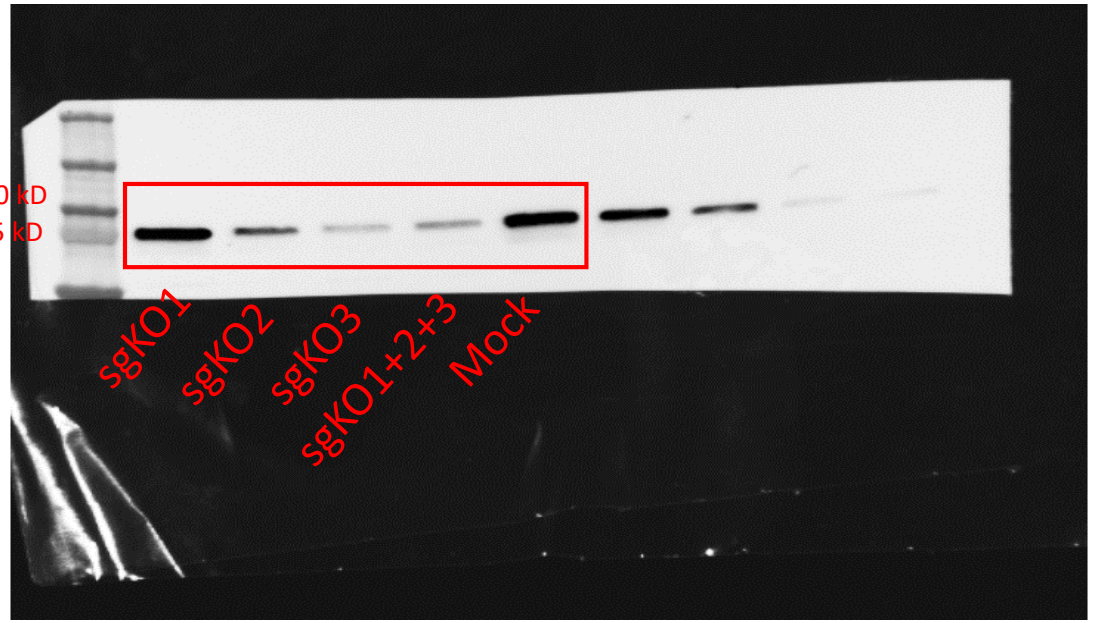


Dessy et al. Supplemental Figure 1 D. Blot image corresponding to the glycosilation assay for healthy donors and CDAII patients. The red box indicates the cropped region shown in the manuscript.

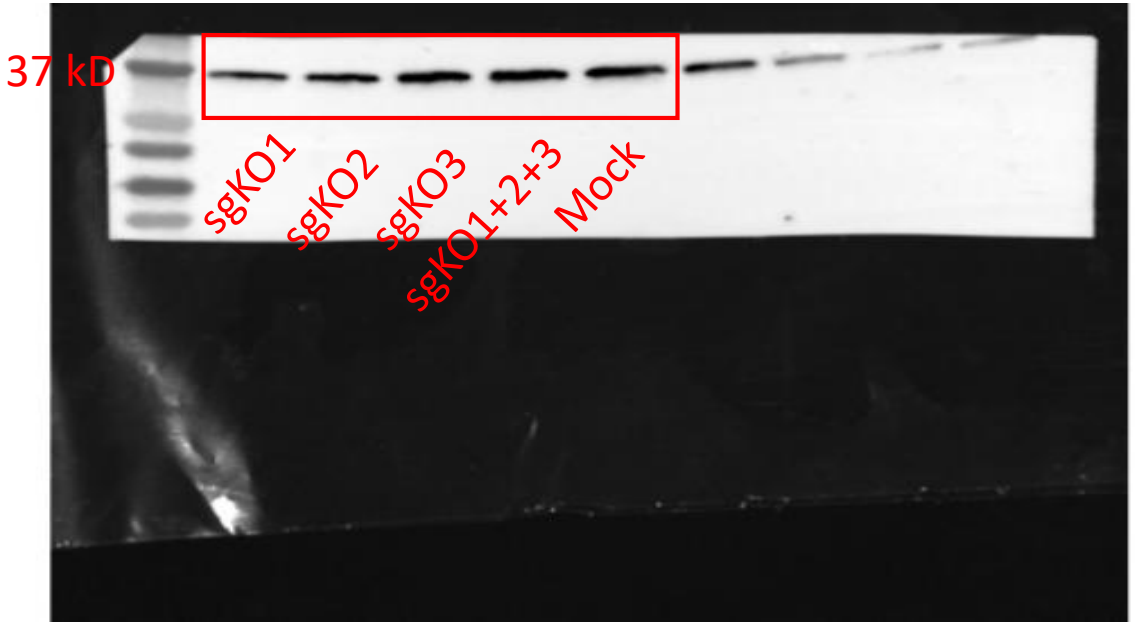


Dessy et al. Supplemental Figure 2 C. Blot image corresponding to the SEC23B protein expression by Western blot for K562 cells nucleofected with the different conditions. The red box indicates the cropped region shown in the manuscript.

SEC23B protein

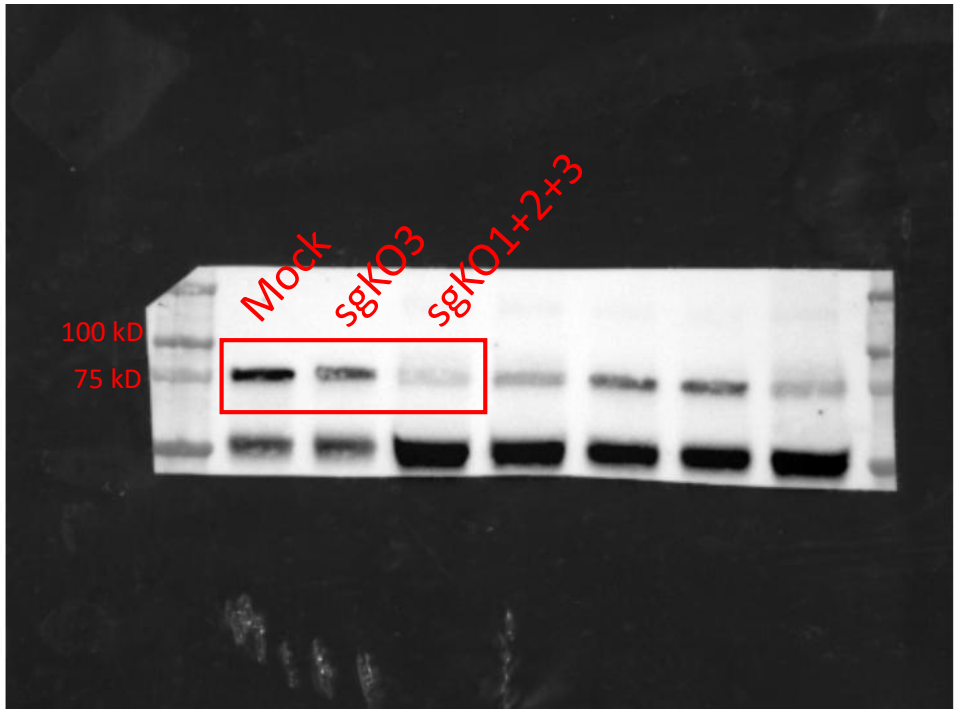


GAPDH protein

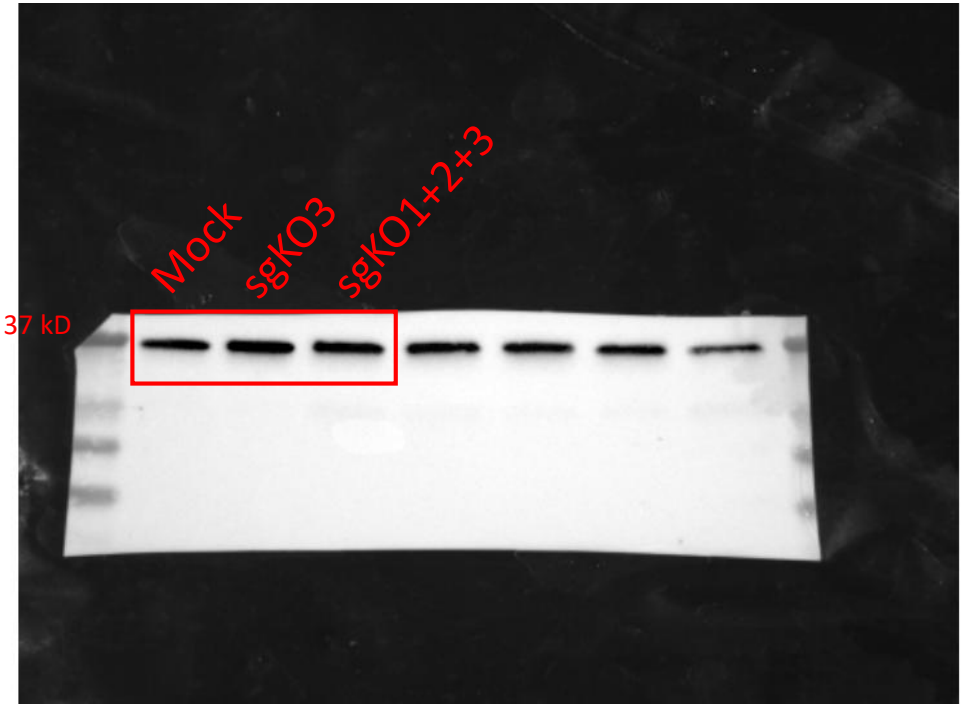


Dessy et al. Supplemental Figure 2 E. Blot image corresponding to the SEC23B protein expression of CB-CD34+ cells at day 9 of the *in vitro* erythropoiesis nucleofected with the different conditions. The red box indicates the cropped region shown in the manuscript.

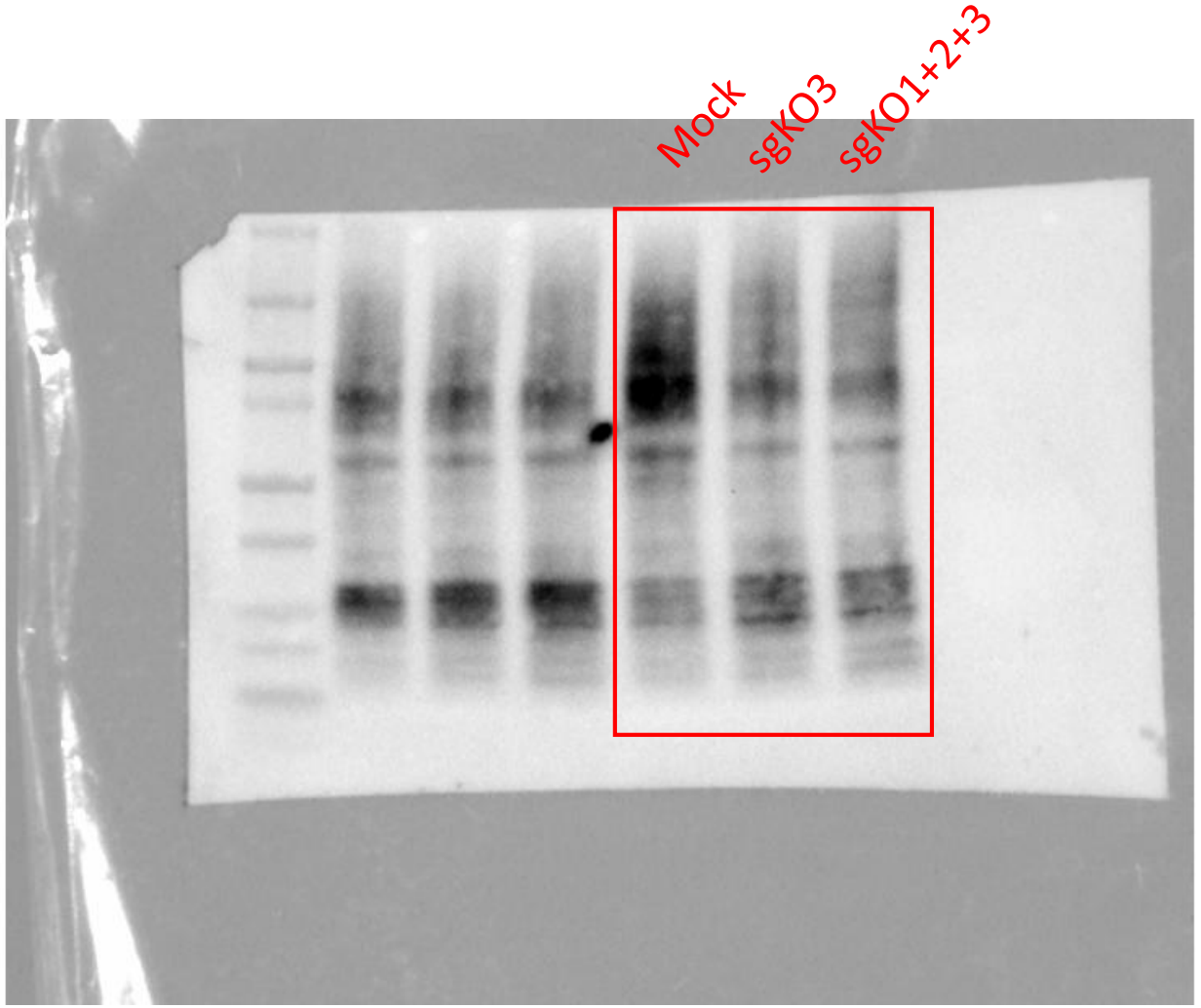
SEC23B protein



GAPDH protein



Dessy et al. Supplemental Figure 2 F. Blot image corresponding to the glycosilation assay of CB-CD34+ cells at day 9 of the *in vitro* erythropoiesis nucleofected with the different conditions. The red box indicates the cropped region shown in the manuscript.



Dessy et al. Supplemental Figure 5B. Blot image corresponding to the glycosilation assay of HSPCs treated with different concentrations of luteolin, benzyl, and swainsonine. The red box indicates the cropped region shown in the manuscript.