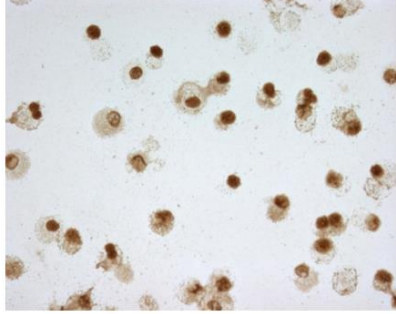


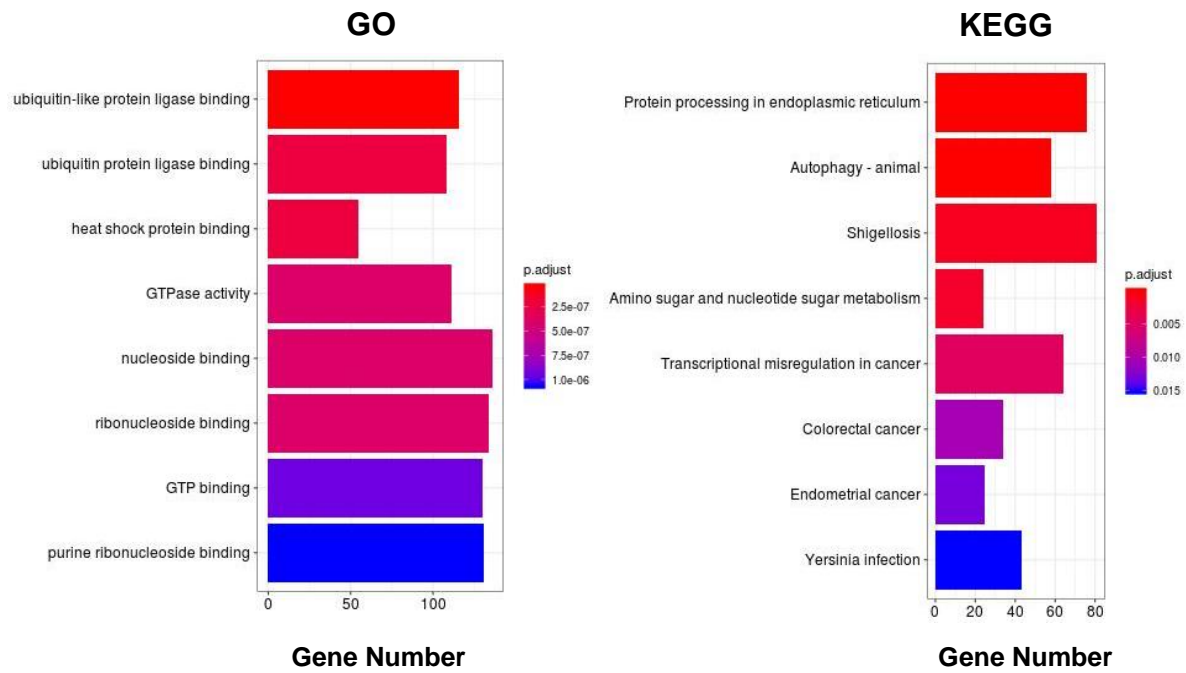
a



b



**Supplementary Figure 1. Confirmation of the mature phenotype of HCMC derived from CD34<sup>+</sup> progenitor cells.** Immunohistochemical staining of tryptase (a) and chymase (b) were performed to confirm the maturity of mast cell. The fixed cytospin slides were treated with primary antibodies against 1: 1000 tryptase and 1:1000 chymase, followed by biotinylated secondary antibody and streptavidin-HRP, and then the signals were captured using DAB solution



**Supplementary Figure 2.** Expression of genes related to SCF complex in HCMC and enriched GO and KEGG pathway analysis of HCMC treated by 6-OAP

The differentially expressed genes after 6-OAP treatment were subjected to enriched GO and KEGG pathway analysis. The first 8 most significant pathways were shown. The result of enriched GO analysis suggests that 6-OAP acted by ubiquitin-like/ubiquitin protein ligase binding, while enriched KEGG analysis hints that 6-OAP affected protein processing in endoplasmic reticulum and autophagy.