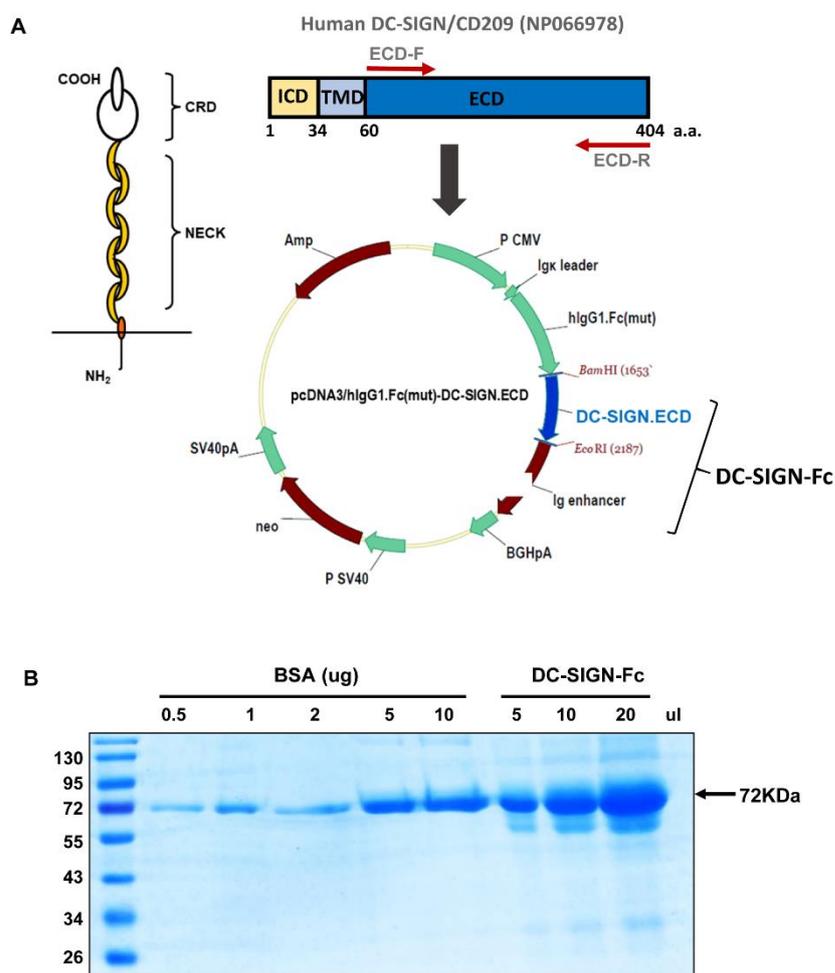
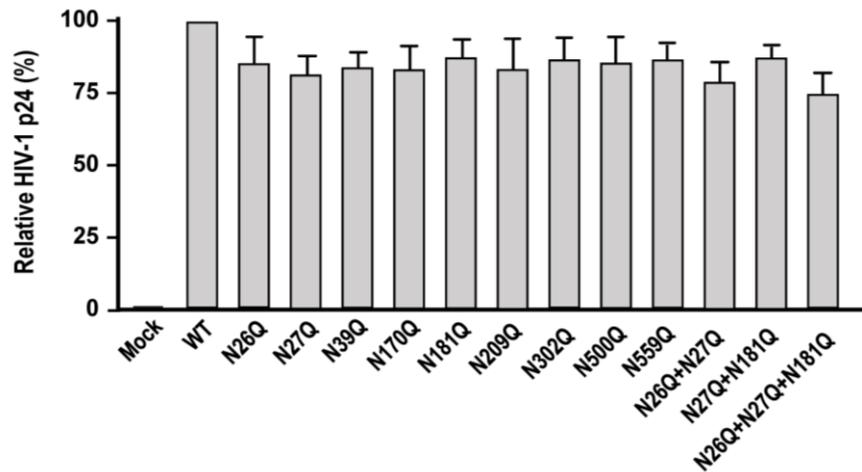


## Supplementary Materials

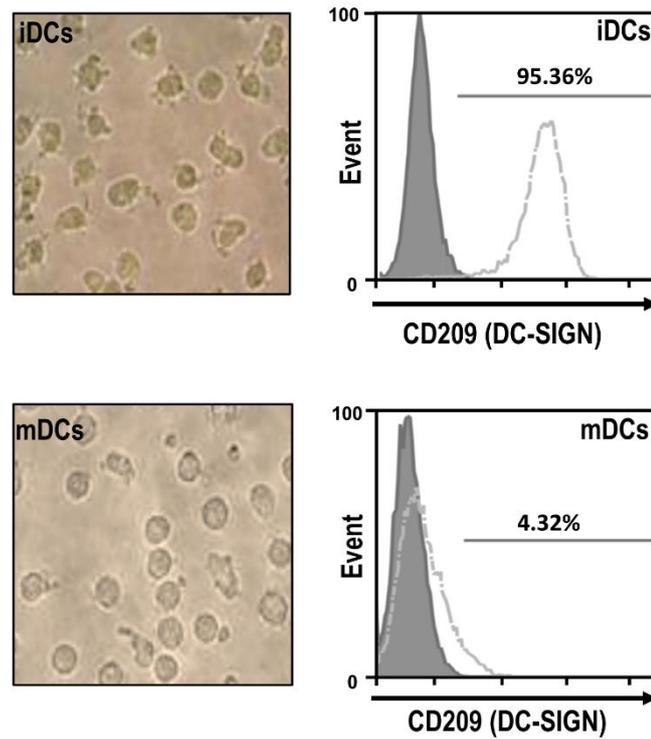
### Results:



**Figure S1.** Generation and purification of recombinant DC-SIGN-Fc proteins. (A) The structure of DC-SIGN and map of the cloning of DC-SIGN extracellular interacting domain (ECD) to pcDNA3/hIgG-Fc(mut) plasmid (upper part). The primers used for amplification of DC-SIGN.ECD including ECD-F': 5'-GGATCCGTCCAAGGTCC CCAGCTCCA-3' and ECD-R':5'-GAATTCCTACGCAGGAGGGGGTTT-3'. (B) The purified DC-SIGN ECD protein from 293F cells were subjected to SDS-PAGE and Coomassie blue staining (lower part). The predicted size of recombinant DC-SIGN-Fc protein is 67KDa, however, the protein size detected in SDS-PAGE is around 72KDa.



**Figure S2.** Determination of binding abilities of H5N1-PVs carrying N-glycosylation mutations to sialic acid expressing A549 cells. Viral binding assay was conducted using A549 cells coated ELISA and then incubated with the H5N1-PVs carrying different N-glycosylation mutants. The relative p24 values were calculated via normalizing with wild-type control.



**Figure S3.** Generation of monocyte derived mature and immature DCs. Monocyte derived mature and immature DCs were generated and observed the morphologies under a light microscope. iDCs and mDCs were stained with anti-DC-SIGN monoclonal antibodies and subjected to FACS.