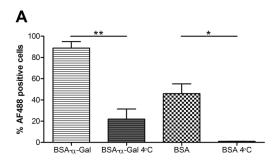
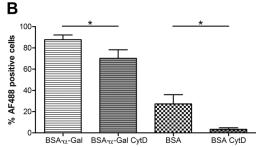
Supplementary information

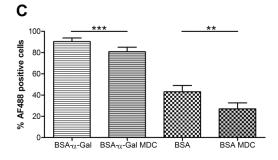
α -Gal on the protein surface affects uptake and degradation in immature monocyte derived dendritic cells

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Supplementary figure S1. Inhibition of internalization of BSA- α -Gal and BSA in healthy iMDDCs after 4 h of incubation A) at 4°C, n = 4, B) with Cytochalasin D, n = 5 (BSA) and n = 6 (BSA- α -Gal), and C) with Monodansylcadaverine, n = 7.* = p < 0.05, ** = p < 0.01 and *** = p < 0.001 analyzed by paired t-test.

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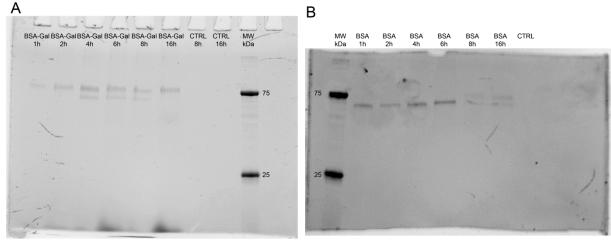
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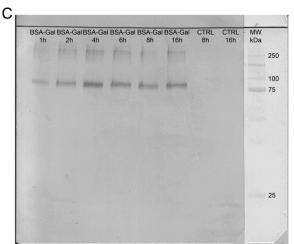
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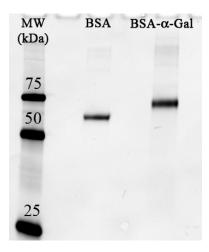
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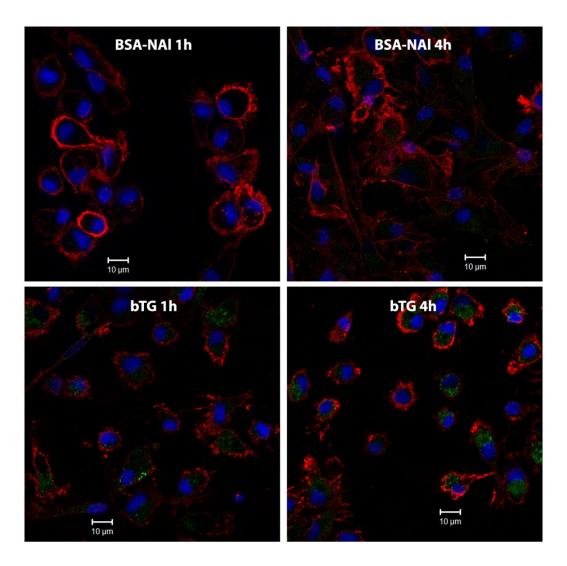




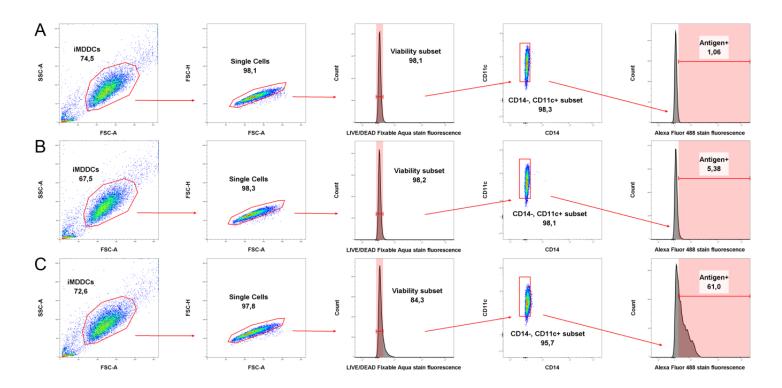
Supplementary Fig. S2. A) Fluorescent detection of BSA- α -Gal and BSA in iMDDCs lysates resolved on an SDS-polyacrylamide gel. B) Western blot detection of the α -Gal epitope in lysates from iMDDCs. iMDDCs were generated from healthy blood donors.



Supplementary figure S3. BSA and BSA- α -Gal resolved on a 12% polyacrylamide gel after SDS-PAGE.



Supplementary figure S4. Uptake of BSA-Nal (top) and bTG (bottom) after 1 h (left) and 4 h (right) of iMDDC incubation at 37°C analyzed by confocal laser scanning microscopy. Green = BSA-NAl or bTG, red = HLA-DR and blue = DAPI stained nuclei.



Supplementary figure S5. Gating strategy for assessment of protein uptake by iMDDCs. A) Negative control, B) BSA and C) BSA- α -Gal. Data analysis was performed using FlowJo version 10 software.