“Non-Toxic” Proteins of the Botulinum Toxin Complex Exert *In-vivo* Toxicity

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Supplementary information

Supplementary figure 1

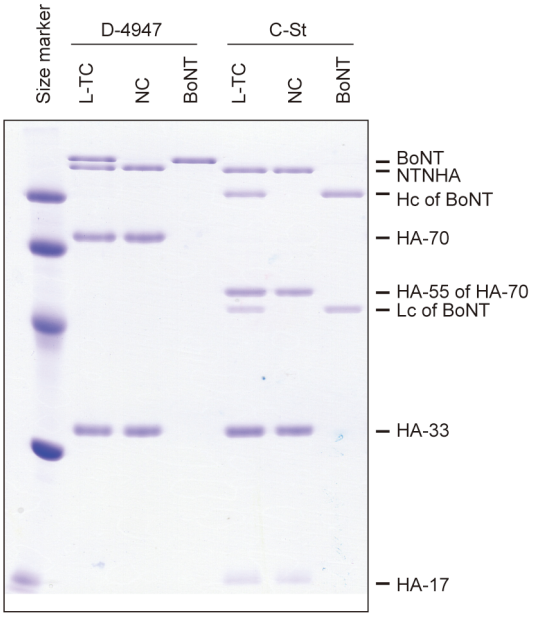

Figure S1. SDS-PAGE banding profiles of the purified L-TC, “Non Toxic” complex and BoNT used in this study.

Supplementary figure 2

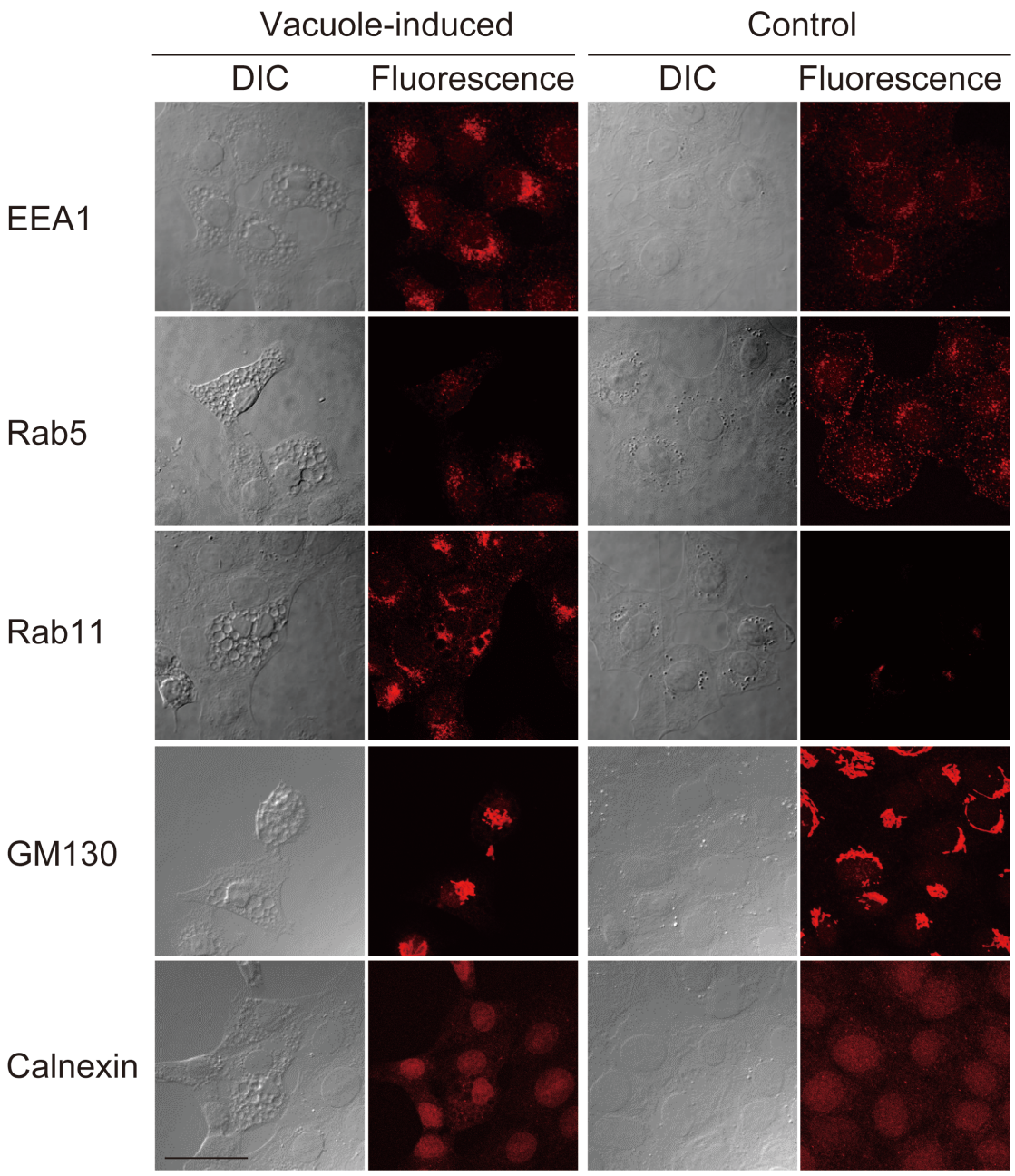

Figure S2. "Non-Toxic" complex-induced vacuoles were not co-localised with the early endosome-specific EEA-1 and Rab5, recycling endosome-specific Rab11, Golgi-specific GM130, and endoplasmic reticulum-specific calnexin. The control cells show the localisation of

each protein in the cell without the exposure to “Non-Toxic” complex. Scale bar: 50 μm.

Movie S1. Solution structure of the L-TC, resembling a bird spreading it wings, revealed by small-angled X-ray scattering (SAXS). Crystal structure of serotype A BoNT/NTNHA complex (red for BoNT and light green for NTNHA), serotype C HA-70 trimer (yellow), and serotype D HA-33/HA-17 trimer (blue for HA-33 and light blue for HA-17) were docked into the SAXS dummy residual model.