Ca^{2+}-DEPENDENT MONOMER AND DIMER FORMATION SWITCHES CAPRI BETWEEN RasGAP AND RapGAP ACTIVITIES

Dai Y, et al.

LEGENDS FOR SUPPLEMENTAL FIGURES AND MOVIES

Supplemental Figure 1. Wild-type and monomeric CAPRI have similar subcellular localization. CHO cells were co-transfected with GFP-ΔcCAPRI and RFP-CAPRI. The localization of GFP-ΔcCAPRI and RFP-CAPRI was examined using wide-field epi-fluorescence microscopy. Panels shown are representative of five independent experiments.

Supplemental Figure 2. Wild-type and monomeric CAPRI translocate similarly to the plasma membrane upon histamine stimulation. CHO cells were co-transfected with GFP-CAPRI and RFP-ΔcCAPRI. The relative plasma membrane translocation of GFP-CAPRI and RFP-ΔcCAPRI induced by stimulation with 100 μM histamine was compared by TIRF microscopy. The black and grey traces show plasma membrane association of GFP-CAPRI and RFP-ΔcCAPRI, respectively, and each are representative of 10 cells.

Supplemental Movie 1. Stimulation with 100 μM histamine induces plasma membrane translocation of GFP-ΔcCAPRI and RFP-CAPRI to a similar extent and with similar dynamics when they are coexpressed in CHO cells. TIRF microscopy.

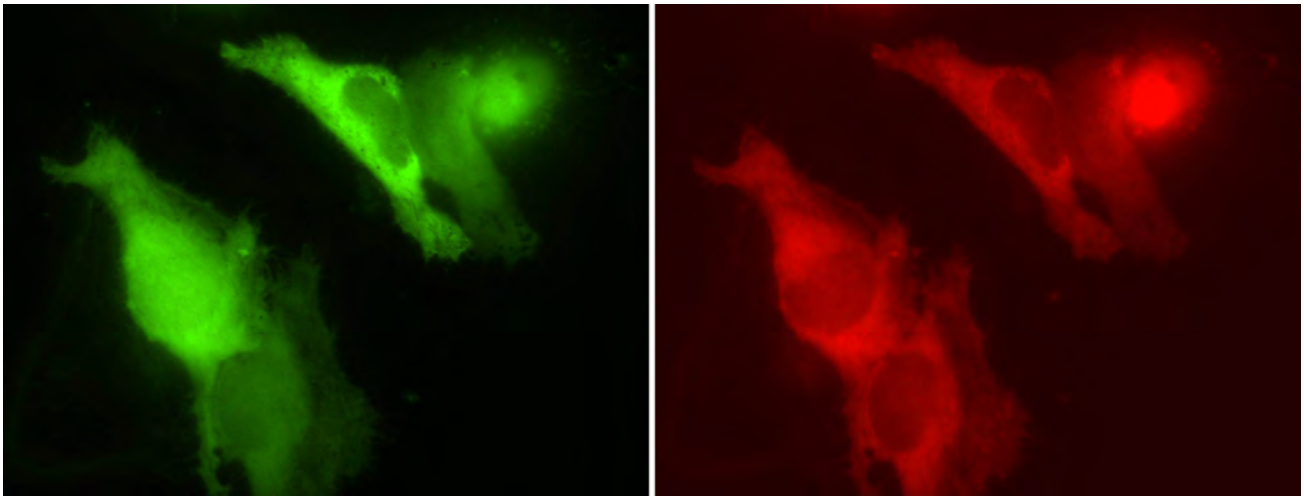
Supplemental Movie 2. Stimulation with 100 μM histamine induces plasma membrane translocation of RFP-ΔcCAPRI and GFP-CAPRI to a similar extent and with similar dynamics when they are coexpressed in CHO cells. TIRF microscopy.

Supplemental Movie 3. Stimulation with 100 μM histamine induces the plasma membrane translocation of RFP-CAPRI which causes a concomitant dissociation of GFP-RBD from the plasma membrane when GFP-RBD and RFP-CAPRI are coexpressed in CHO cells. TIRF microscopy.

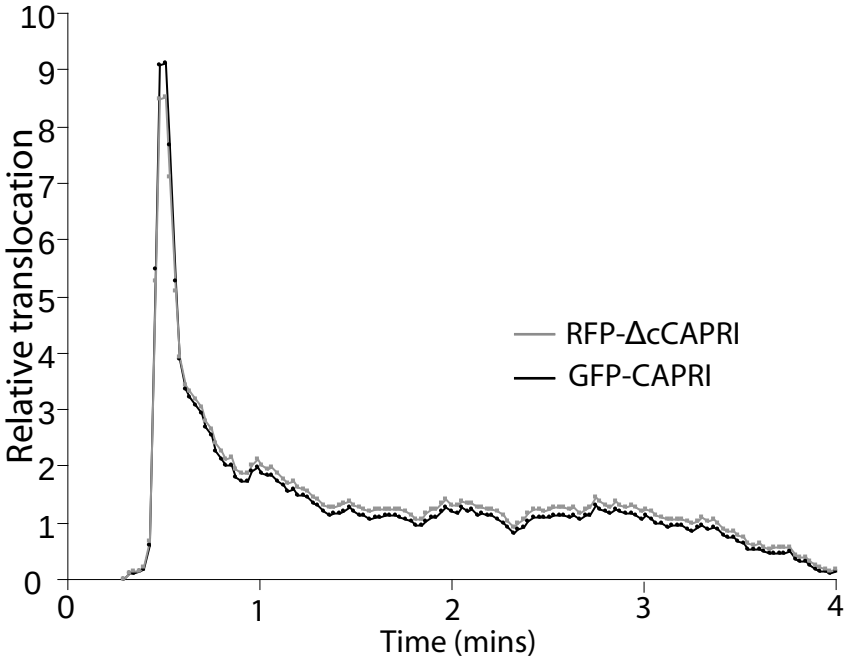
Supplemental Movie 4. Stimulation with 100 μM histamine induces the plasma membrane translocation of RFP-ΔcCAPRI which causes a concomitant dissociation of GFP-RBD from the plasma membrane when GFP-RBD and RFP-ΔcCAPRI are coexpressed in CHO cells. TIRF microscopy.

GFP-ΔcCAPRI

RFP-CAPRI



Dai et al. Suppl Figure 1



Dai et al. Suppl Figure 2