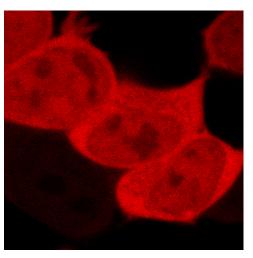
Supporting Information

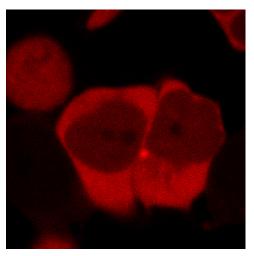
Skwarczynska et al. 10.1073/pnas.1212990110



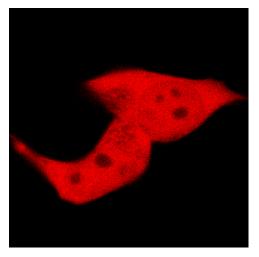
Movie S1. (nuclear exclusion_5 μ M FC) mCherry-CT52M1 is cotransfected with T14-3–3c Δ C-M1-GFP. T14-3–3c Δ C-M1-GFP is localized in the cytoplasm, and mCherry-CT52M1 shuttles between the cytoplasm and nucleus. After the addition of 5 μ M fusicoccin (FC) to the HEK293T cells, mCherry-CT52M1 forms a complex with T14-3–3c Δ C-M1-GFP, thereby trafficking into the cytoplasm. Time frame: 60 min.

Movie S1

DNAS Nd



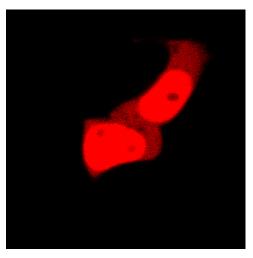
Movie S2. (nuclear exclusion_revers) The reversibility of the nuclear-excluded mCherry-CT52M1 is demonstrated by rinsing the cells with FC-free medium. The ternary complex of mCherry-CT52M1, T14-3–3c Δ C-M1-GFP and FC dissociates, so that part of the cytoplasmic population of mCherry-CT52M1 trafficks back into the nucleus. Time frame: 60 min.



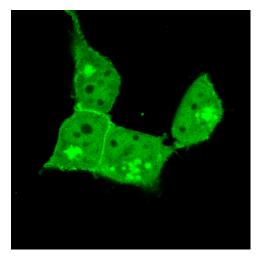
Movie S3. (nuclear accumulation_5µM FC) mCherry-CT52M1 is cotransfected with T14-3–3c Δ C-M2-NLS-GFP. T14-3–3c Δ C-M2-NLS-GFP is localized in the nucleus, and mCherry-CT52M1 shuttles between the cytoplasm and nucleus. After the addition of 5µM FC to the HEK293T cells, mCherry-CT52M1 forms a complex with T14-3–3c Δ C-M2-NLS-GFP and thereby is translocated into the nucleus. Time frame: 60 min.

Movie S3

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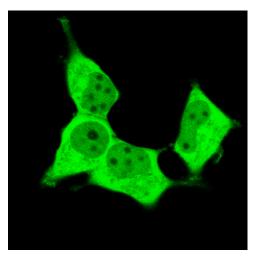


Movie S4. (nuclear accumulation_revers) The reversibility of the nuclear-accumulated mCherry-CT52M1 is demonstrated by rinsing the cells with FC-free medium. The ternary complex of mCherry-CT52M1, T14-3–3c Δ C-M2-NLS-GFP, and FC dissociates, so that part of the nuclear population of mCherry-CT52M1 trafficks back into the cytoplasm. Time frame: 60 min.

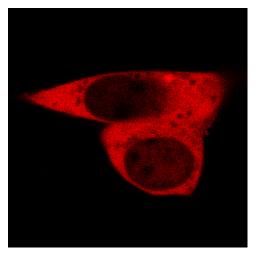


Movie S5. (pm recruitment_ 5μ M FC) *N*-Myr-mCherry-CT52M1 is cotransfected with T14-3–3c Δ C-M2-GFP. T14-3–3c Δ C-M2-GFP shuttles between nucleus and cytoplasm, and N-Myr-mCherry-CT52M1 is recruited to the plasma membrane. After the addition of 5 μ M FC to the HEK293T cells, T14-3–3c Δ C-M2-GFP forms a complex with N-Myr-mCherry-CT52M1 and thereby is recruited within few seconds to the plasma membrane. Time frame: 30 min.

Movie S5



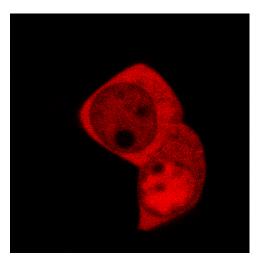
Movie S6. (pm recruitment_revers) The reversibility of the plasma membrane-recruited T14-3–3c Δ C-M2-GFP is demonstrated by rinsing the cells with FC-free medium. The ternary complex of N-Myr-mCherry-CT52M1, T14-3–3c Δ C-M2-GFP, and FC dissociates, allowing translocation of T14-3–3c Δ C-M2-GFP back into the cytoplasm and nucleus. Time frame: 30 min.



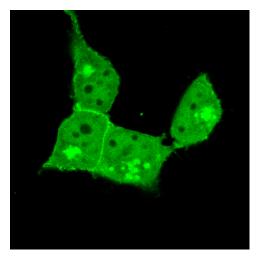
Movie 57. (p65 nuclear import_ 5μ M FC) mCherry-p65-CT52M1 is cotransfected with T14-3–3c Δ C-M2-NLS-GFP. T14-3–3c Δ C-M2-NLS-GFP is localized in the nucleus, and mCherry-p65-CT52M1 is localized in the cytoplasm. After the addition of 5 μ M FC to the HEK293T cells, mCherry-p65-CT52M1 forms a complex with T14-3–3c Δ C-M2-NLS-GFP and thereby is translocated into the nucleus. Time frame: 90 min.

Movie S7

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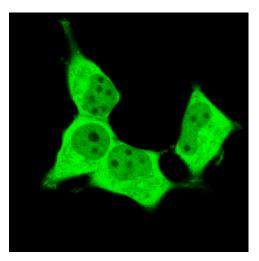


Movie S8. (p65 nuclear import_revers FC.avi) The reversibility of the nuclear-accumulated mCherry-p65-CT52M1 is demonstrated by rinsing the cells with FC-free medium. The ternary complex of mCherry-p65-CT52M1, T14-3–3c Δ C-M2-NLS-GFP, and FC dissociates, so that part of the nuclear population of mCherry-p65-CT52M1 trafficks back into the cytoplasm. Time frame: 80 min.

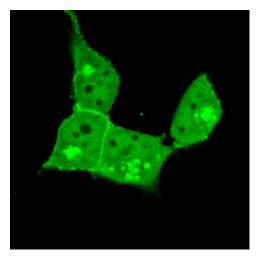


Movie S9. PM_1 (pm recruitment_5 μ M FC) *N*-Myr-mCherry-CT52M1 is cotransfected with T14-3–3c Δ C-M2-GFP. T14-3–3c Δ C-M2-GFP shuttles between nucleus and cytoplasm, and *N*-Myr-mCherry-CT52M1 is recruited to the plasma membrane. After the addition of 5 μ M FC to the HEK293T cells, T14-3–3c Δ C-M2-GFP forms a complex with N-Myr-mCherry-CT52M1 and thereby is recruited within few seconds to the plasma membrane. Time frame: 30 min.

Movie S9

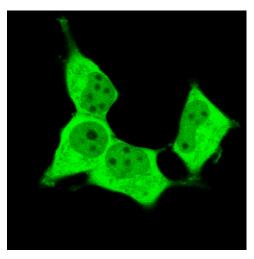


Movie S10. PM_2 (pm recruitment_revers) The reversibility of the plasma membrane-recruited T14-3–3c Δ C-M2-GFP is demonstrated by rinsing the cells with FC-free medium. The ternary complex of N-Myr-mCherry-CT52M1, T14-3–3c Δ C-M2-GFP, and FC dissociates, allowing translocation of T14-3–3c Δ C-M2-GFP back into the cytoplasm and nucleus. Time frame: 30 min.



Movie S11. PM_3 (second pm recruitment_5 μ M FC) *N*-Myr-mCherry-CT52M1 is cotransfected with T14-3–3c Δ C-M2-GFP. T14-3–3c Δ C-M2-GFP shuttles between nucleus and cytoplasm, and N-Myr-mCherry-CT52M1 is recruited to the plasma membrane. After the addition of 5 μ M FC to the HEK293T cells, T14-3–3c Δ C-M2-GFP forms a complex with N-Myr-mCherry-CT52M1 and thereby is recruited within few seconds to the plasma membrane. Time frame: 30 min.

Movie S11



Movie S12. PM_4 (second pm recruitment_revers) The reversibility of the plasma membrane-recruited T14-3–3c Δ C-M2-GFP is demonstrated by rinsing the cells with FC-free medium. The ternary complex of N-Myr-mCherry-CT52M1, T14-3–3c Δ C-M2-GFP, and FC dissociates, allowing translocation of T14-3–3c Δ C-M2-GFP back into the cytoplasm and nucleus. Time frame: 30 min.

Movie S12

Other Supporting Information Files

SI Appendix (PDF)