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Rab29 fast exchange mutants: characterization of a challenging Rab GTPase

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Protocol Information

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Authors: Rachel C. Gomez, Edmundo G. Vides, Suzanne Pfeffer

Summary: Rab29 has been implicated in multiple membrane trafficking processes with no described effectors or regulating proteins. Its fast nucleotide exchange rate and inability to bind GDI in cytosol make it a unique and poorly understood Rab. Because the conventional, "GTP-locked" Rab mutation does not have the desired effect in Rab29, we present here the use of a fluorescence-based assay to characterize novel mutants that display faster nucleotide exchange rates, allowing for GEF-independent Rab29 activation.

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