Supplementary Information

Figure S1, supplement

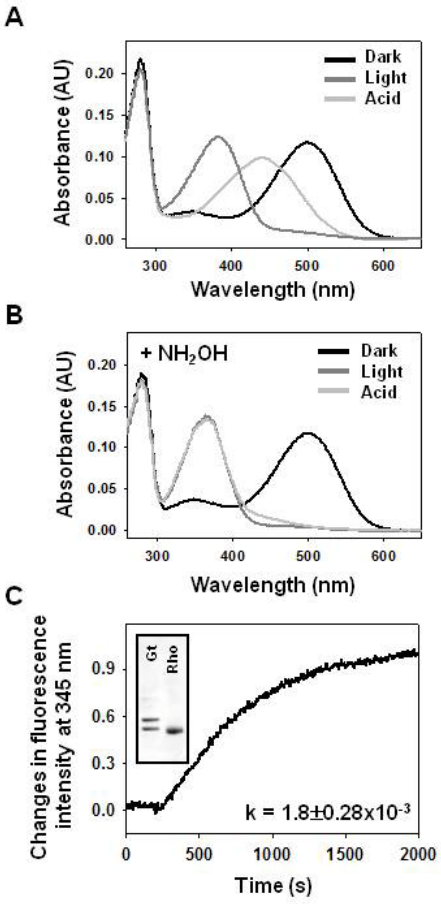

Figure S1. Spectral properties of Rho. **A**, UV-visible absorbance spectra of Rho purified by Zn^{2+}-extraction. Spectra are shown of ground state Rho (black line), photoactivated Rho* (grey line), and acidified Rho* (light grey line). **B**, UV-visible absorbance spectra of Zn^{2+}-extracted Rho in the presence of NH_2OH. Spectra are shown of ground state Rho (black line), photoactivated Rho* (grey line) and acidified Rho* (light grey line). **C**, Intrinsic fluorescence increase of the Gt_α subunit resulting from interaction with photoactivated Rho*. The reaction was carried out at 20 °C in a continuously stirred cuvette with 25 nM Rho and 250 nM Gt in 10 mM BTP, pH 7.0, containing 120 mM NaCl, 5 mM $MgCl_2$, and 1 mM DDM. Five μM GTPγS was added after 300 s of recording. The relative activation rate (k) was calculated from three independent experiments. *Inset,* SDS-PAGE analysis of Rho and Gt used in these experiments; 1 μg of Gt and 1 μg of Rho were loaded on 10% SDS-PAGE. Proteins used for these experiments were pure and functional.

Figure S2, supplement

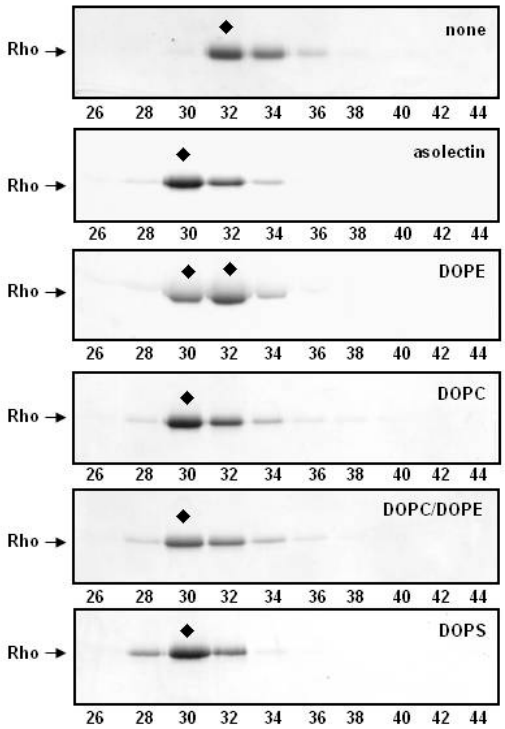

Figure S2. Gel filtration of free Rho in DDM without and with designated added phospholipids. Fractions (30 μl) obtained after gel filtration were analyzed by Coomassie blue-stained SDS-PAGE. ♦- Indicates fractions containing the highest concentrations of Rho. Results indicate that phospholipids cause Rho to migrate in higher molecular weight fractions.