Fig. S1. Densitometric analyses of Western blots in Fig 3. The signal intensity of the bands was quantified by densitometry, and is shown as a percentage of the corresponding controls (the leftmost bar in each graph). Values are expressed as the mean ± SEM. When a significant interaction was detected by ANOVA (All groups of Fig. 3A and 3B, and ZA-ECF of Fig. 3C), the data were analyzed by a *post-hoc* Fisher PLSD test.

Fig. S1A (for Fig. 3A)

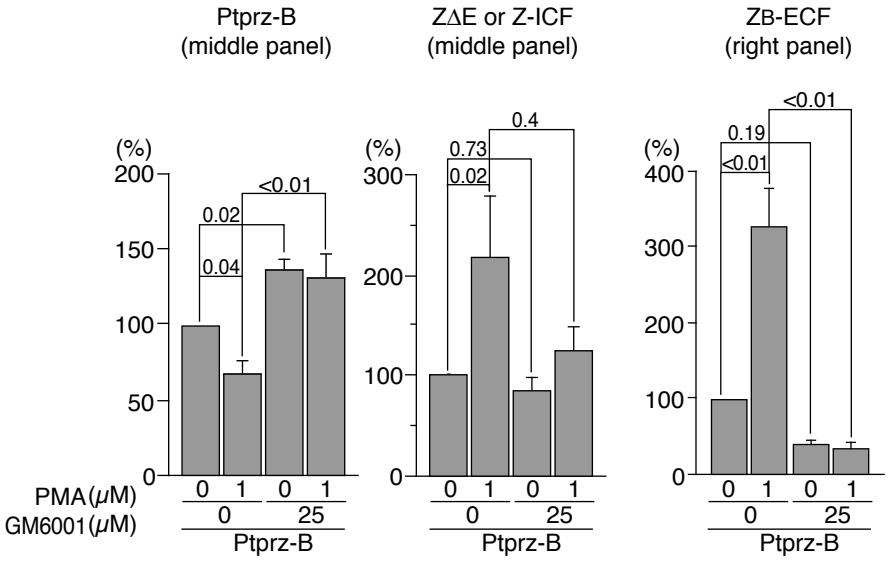

Fig. S1B (for Fig. 3B)

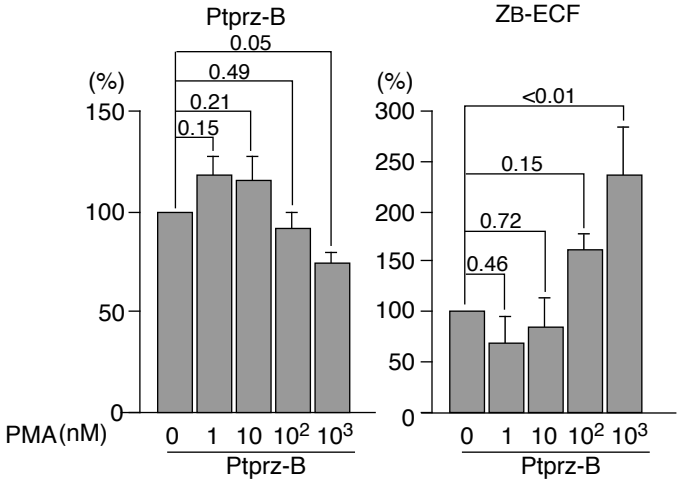

Fig. S1C (for Fig. 3C)

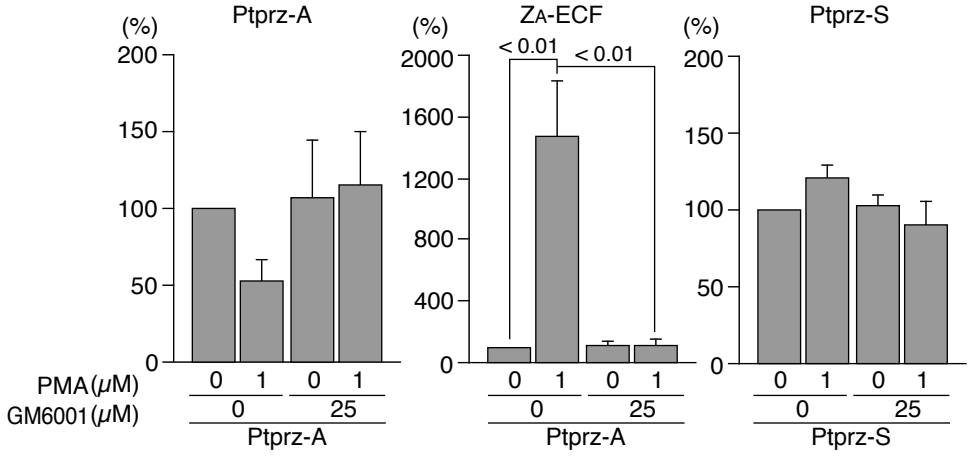

Fig. S2. Densitometric analyses of Western blots in Fig 4. The signal intensity of the bands was quantified by densitometry, and is shown as a percentage of the corresponding controls (the leftmost bar in each graph). Values are expressed as the mean ± SEM. When a significant interaction was detected by ANOVA (All groups), the data were analyzed by a *post-hoc* Fisher PLSD test.

Fig. S2 (for Fig. 4)

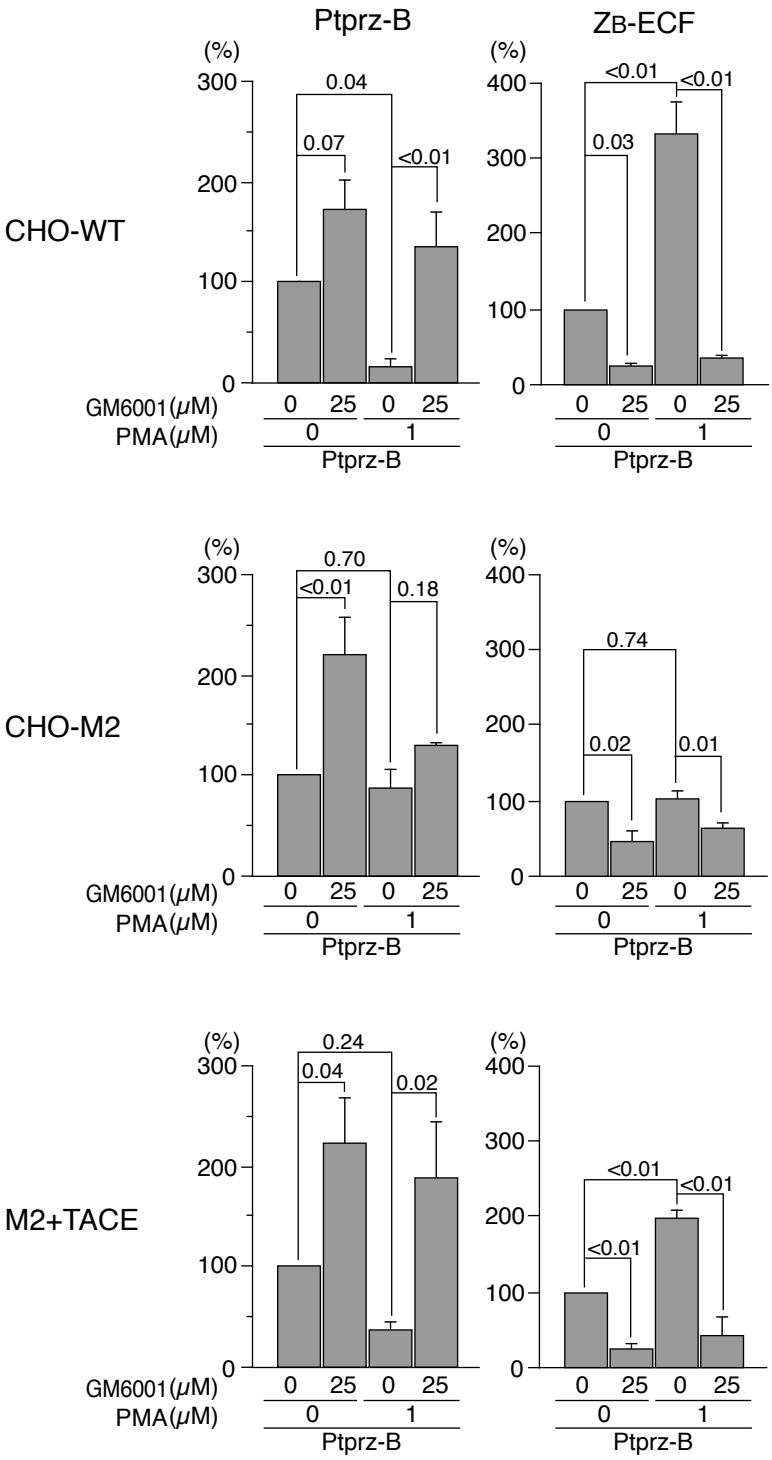

Fig. S3. Densitometric analyses of the Western blots in Fig 5. The signal intensity of the bands was quantified by densitometry, and shown as a percentage of the corresponding controls (the leftmost bar in each graph). Values are expressed as the mean ± SEM. When a significant interaction was detected by ANOVA (All groups of CHO-WT cells), the data were analyzed by a *post-hoc* Fisher PLSD test.

Fig. S3 (for Fig. 5)

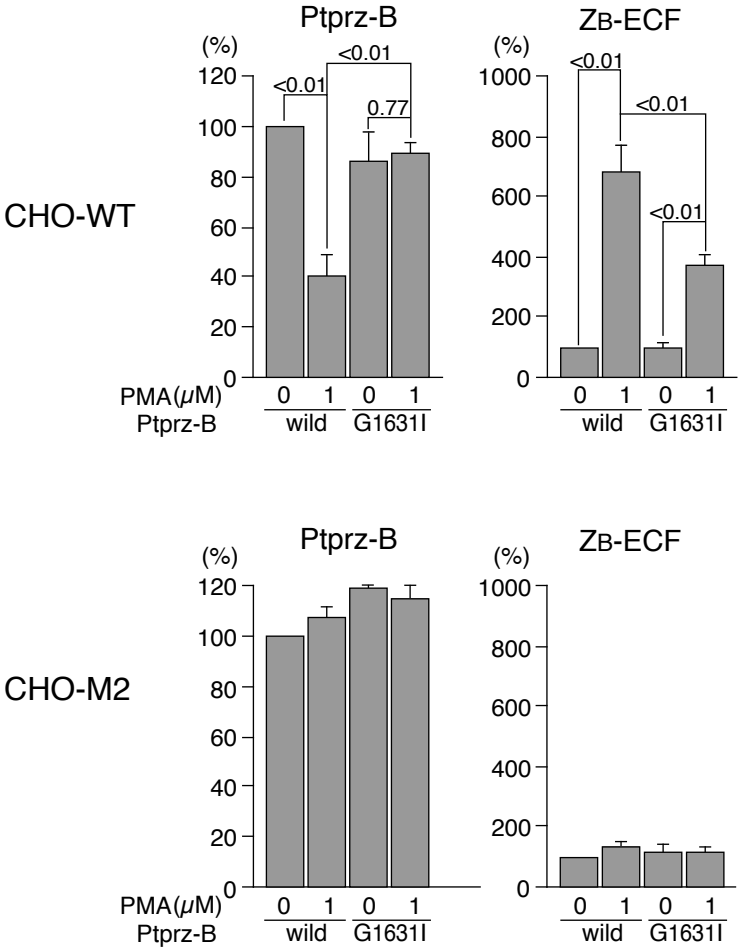

Fig. S4. Densitometric analyses of Western blots in Fig 8. The signal intensity of the bands was quantified by densitometry, and is shown as a percentage of the corresponding controls (the leftmost bar in each graph). Values are expressed as the mean ± SEM. When a significant interaction was detected by ANOVA (All groups), the data were analyzed by a *post-hoc* Fisher PLSD test.

Fig. S4 (for Fig. 8)

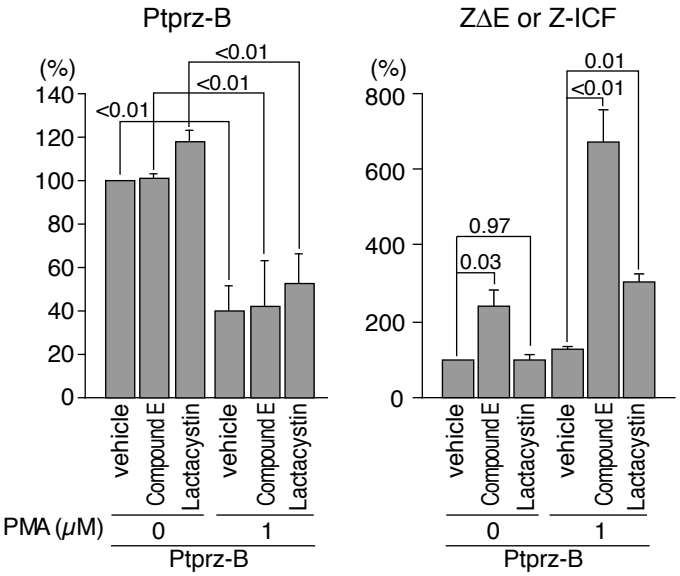

Fig. S5. Densitometric analyses of Western blots in Fig 9. The signal intensity of the bands was quantified by densitometry, and is shown as a percentage of the corresponding controls (the leftmost bar in each graph). Values are expressed as the mean ± SEM. When a significant interaction was detected by ANOVA ("ZΔE or Z-ICF" of PS1 WT cells and "Ptprz-B" and "ZΔE or Z-ICF" of PS1 D385A cells), the data were analyzed by a *post-hoc* Fisher PLSD test.

Fig. S5 (for Fig. 9)