Validation data for A549-RepTor™ cells

https://www.invivogen.com/tet-on-a549-reptor-cells

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Version 24A25-NJ

A549-RepTor™ cells are designed for the Tet-on inducible expression of a protein. The absence of expression leakage has been verified in A549-RepTor™ cells transfected with pTiGer plasmids coding for the SEAP (secreted embryonic alkaline phosphatase) or Lucia luciferase reporter proteins **(Figure 1).** SEAP and Lucia are conditionally expressed by A549-RepTor™ SEAP and A549-RepTor™ Lucia cells upon incubation with Doxycycline (Dox), in a dose-dependent manner **(Figure 2).**

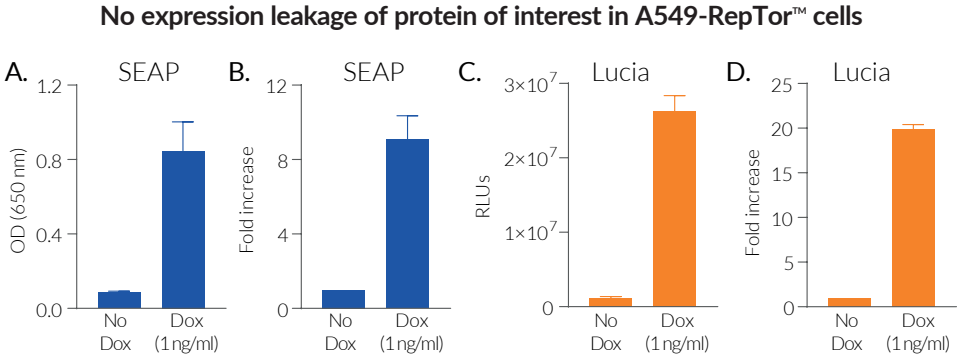

Figure 1: Expression of SEAP or Lucia reporter proteins in transfected A549-RepTor™ cells. A549-RepTor™ cells were transfected with the gene coding for SEAP (secreted embryonic alkaline phosphatase) or Lucia luciferase cloned into a pTiGer plasmid. The cells were then treated or not with Doxycycline (Dox) at 1 ng/ml for 24 hours. **(A, B)** The SEAP activity in the supernatant of A549-RepTor™ SEAP cells was assessed using QUANTI-Blue™ detection reagent. The data is shown as **(A)** OD at 650 nm and **(B)** fold increase (mean +SEM). **(C, D)** The Lucia activity in the supernatant of A549-RepTor™ Lucia cells was assessed using QUANTI-Luc™ 4 Lucia/Gaussia detection reagent. The data is shown as **(C)** relative light units (RLUs) and **(D)** fold increase (mean +SEM).

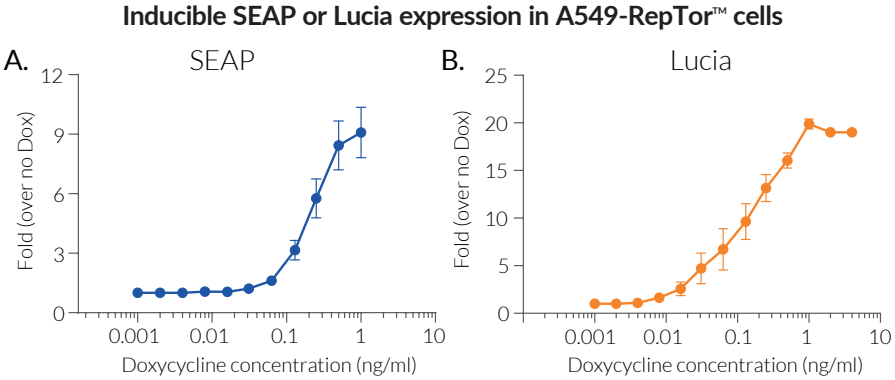

Figure 2: Dose-dependent Doxycycline-mediated expression of SEAP or Lucia in A549-RepTor™ cells. A549-RepTor™ cells were transfected or not with the gene coding for SEAP (secreted embryonic alkaline phosphatase) or Lucia luciferase cloned into a pTiGer plasmid. A549-RepTor™ SEAP cells and A549-RepTor™ Lucia cells were incubated with increasing concentrations of Doxycycline. After 24 hours, the SEAP or Lucia activity in the supernatant was assessed using **(A)** QUANTI-Blue™ or **(B)** QUANTI-Luc™ 4 Lucia/Gaussia, respectively. The data is shown as fold induction over no Dox treatment (mean + SEM).

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