$$\mathrm{Hom}(B,B) \otimes \mathrm{Hom}(A,B) \xrightarrow{\ \circ_{A,B,B}\ } \mathrm{Hom}(A,B) \xleftarrow{\ \circ_{A,A,B}\ } \mathrm{Hom}(A,B) \otimes \mathrm{Hom}(A,A)$$

$$\Big\uparrow{\scriptstyle i_B \otimes 1} \qquad\qquad {\scriptstyle \lambda} \qquad\qquad\qquad {\scriptstyle \rho} \qquad\qquad\qquad \Big\uparrow{\scriptstyle 1 \otimes i_A}$$

$$I \otimes \mathrm{Hom}(A,B) \qquad\qquad\qquad\qquad\qquad \mathrm{Hom}(A,B) \otimes I$$