

$$\begin{array}{ccc}
 \text{Mor}_{\mathcal{A}}(a, b) \otimes I & \xrightarrow{id \otimes j_a} & \text{Mor}_{\mathcal{A}}(a, b) \otimes \text{Mor}_{\mathcal{A}}(a, a) \\
 & \searrow \rho \quad \circ & \downarrow m_{aab} \\
 & & \text{Mor}_{\mathcal{A}}(a, b)
 \end{array}$$