

$$\begin{array}{ccc}
 I \otimes \text{Mor}_{\mathcal{A}}(a, b) & \xrightarrow{j_b \otimes id} & \text{Mor}_{\mathcal{A}}(b, b) \otimes \text{Mor}_{\mathcal{A}}(a, b) \\
 & \searrow \lambda \quad \circlearrowleft & \downarrow m_{abb} \\
 & & \text{Mor}_{\mathcal{A}}(a, b)
 \end{array}$$