

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