$$(A \times \{1\}) \times B \xrightarrow{\alpha_{A,\{1\},B}} A \times (\{1\} \times B)$$

$$\rho_A \times \mathrm{id}_B \qquad A \times B \qquad \mathrm{id}_A \times \lambda_B$$

$$\langle a, b \rangle$$