$$\langle *, a \rangle \longmapsto a$$

$$\mathbf{1} \times \mathbf{A} \xrightarrow{\mathrm{lu_A}} \mathbf{A}$$

$$\mathrm{id_1} \times f \downarrow \qquad \qquad \downarrow f$$

$$\mathbf{1} \times \mathbf{A'} \xrightarrow{\mathrm{lu_{A'}}} \mathbf{A'}$$

$$\langle *, f(a) \rangle \longmapsto f(a)$$