$$(a,1) \longmapsto a \longmapsto A + \emptyset \xrightarrow{\operatorname{ru}_{\mathbf{A}}} \mathbf{A}$$

$$f + \operatorname{Id}_{\emptyset} \downarrow \qquad \qquad \downarrow f$$

$$\mathbf{A'} + \emptyset \xrightarrow{\operatorname{ru}_{\mathbf{A'}}} \mathbf{A'}$$

$$\langle f(a), 1 \rangle \longmapsto f(a)$$