$$(x,y,z) \xrightarrow{\mu \times 1} (x \cdot y,z) \qquad M \times M \times M \xrightarrow{\mu \times 1} M \times M$$

$$\downarrow^{1 \times \mu} \qquad \downarrow^{\mu} \qquad \downarrow^{\mu}$$

$$(x,y \cdot z) \xrightarrow{\mu} x \cdot (y \cdot z) = (x \cdot y) \cdot z \qquad M \times M \xrightarrow{\mu} M$$

$$\begin{array}{c|c} M \times M \times M & \xrightarrow{\mu \times 1} & M \times M \\ \downarrow^{1 \times \mu} & & \downarrow^{\mu} \\ M \times M & \xrightarrow{\mu} & M \end{array}$$