$$\begin{array}{ccccc}
X' & \xrightarrow{\ i_X\ } & X & \xrightarrow{\ p_X\ } & X' \\
{\scriptstyle a'}\downarrow & \boxtimes & \downarrow{\scriptstyle w} & \circlearrowright & \downarrow{\scriptstyle a'} \\
Y' & \xdashrightarrow{\ i_Y\ } & Y & \xrightarrow{\ p_Y\ } & Y' \\
{\scriptstyle c'}\downarrow & \circlearrowright & \downarrow{\scriptstyle f} & \text{PB} & \downarrow{\scriptstyle c'} \\
Z' & \xrightarrow{\ i_Z\ } & Z & \xrightarrow{\ p_Z\ } & Z'
\end{array}$$