$$
\begin{array}{ccc}
A & \xrightarrow{\binom{f}{g}} & B \prod B \\
\downarrow{\scriptstyle h} & {\scriptstyle \binom{d_0}{d_1}} & \uparrow{\scriptstyle \binom{1}{1}} \\
B' & \xLeftarrow[\sigma]{} & B
\end{array}
$$