$$\frac{l}{\delta_{ip}} = \frac{\partial E_p}{\partial \ ^{l}x_{ip}} = \left[\frac{\partial \ ^{l+1}x_p}{\partial \ ^{l}x_{ip}}\right]^{\mathrm{T}} \cdot \frac{\partial E_p}{\partial \ ^{l+1}x_p}$$

$$\frac{\partial \ ^{l+1}x_{kp}}{\partial \ ^{l}x_{ip}} = \frac{\partial \sum_{i} \ ^{l+1}w_{ik} \ ^{l}O_{ip}}{\partial \sum_{j} \ ^{l}x_{ip}} = \frac{l}{\partial \sum_{i} \ ^{l+1}x_{kp}} = \frac{l+1}{\partial \sum_{j} \ ^{l}x_{ip}} = \frac{l}{\partial \sum_{i} \ ^{l}x_{ip$$