Let $R$ be a noncommutative prime ring and $a \in R$. Suppose that $\delta$ is a $\sigma$-derivation of $R$ such that $a[\delta(x), x]^k = 0$ for all $x \in R$, where $k$ is a fixed positive integer. Then $a = 0$ or $\delta = 0$ except when $R = M_2(GF(2))$. 

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