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We present the analysis of 3 hrs of a rapid time series of precise stellar radial velocity (RV) measurements ($\sigma = 4.5 \text{ m s}^{-1}$) of the cool Ap star β CrB. The integrated RV measurements spanning the wavelength interval 5000-6000 Å show significant variations (false alarm probability = 10^{-5}) with a period of 16.21 min ($\nu = 1028.17 \text{ } \mu\text{Hz}$) and an amplitude of $3.54 \pm 0.56 \text{ m s}$ over a much narrower wavelength interval reveals one spectral feature at $\lambda 6272.0 \text{ Å}$ pulsating with the same 16.21 min period and an amplitude of $138 \pm 23 \text{ m s}^{-1}$. These observations establish β CrB to be a low-amplitude rapidly oscillating Ap star
