

The cross section of the diffractive process $e^+p \rightarrow e^+Xp$ is measured at a centre-of-mass energies of 319 GeV, where the system X contains at least two jets and the leading final state proton p is detected in the H1 Very Forward Proton Spectrometer. The measurement is performed in photoproduction defined by photon virtualities $Q^2 < 2 \text{ GeV}^2$ and in deep-inelastic scattering with $4 \text{ GeV}^2 < Q^2 < 80 \text{ GeV}^2$. The results are compared to next-to-leading order QCD calculations based on diffractive parton distribution functions as extracted from measurements of inclusive cross sections in diffractive deep-inelastic scattering. A collinear QCD factorization theorem is tested against the measured cross sections and their ratios.