The Chinese ladder brake fern, *P. vittata*, shows considerable morphological variations and has wide geographical distribution throughout the world. In India and China this species was reported as cryptic species with five cytotypes, namely diploid, triploid, teraploid, pentaploid and hexaploid, and has basic chromosomes number 29. Cytological studies on *P. vittata* in Indonesia is view informed. There were two ploidi levels and reproduction type among 37 individuals of *P. vittata* in Java, sexual tetraploid (2n= 4x = 116) and apogamy pentaploid (2n = 5x = 145). Pentaploid is a new record in Java. The tetraploid and pentaploid types were morphologically not differentiated clearly, but the pentaploid has larger stomata size than that of the tetraploid.