K-Ar Dating of Granodiorite Porphyry Dikes and Aplite Veins from Hatagawa Fracture Zone, Eastern Fukushima, Northeast Japan

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K-Ar dating of granodiorite porphyry dikes and aplite veins was carried out. These discordant intrusives are distributed near the Hatagawa Fracture Zone (HFZ), eastern Fukushima, northeast Japan. We discussed the geotectonic history of the HFZ. It was revealed that a number of discordant intrusives intruded while the igneous activities were very high, from 126Ma to 95.7Ma. The trend of granodiorite porphyry dikes is to NW-SE. If this trend assumed to show the compressive normal stress axis, it could be explained that the mylonite, strike is NNE-SSW, of the mylonite belt deformed by left-lateral shear. The above facts suggest that the mylonite belt was formed with igneous activities.