

Geochronological study of the Aji granite in the eastern Sanuki district, Ryoke belt, Southwest Japan

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The Aji granite gave a Rb-Sr whole - rock isochron age of 82.9 ± 8.0 Ma with an initial Sr isotopic ratio of 0.70773 ± 0.00007 . The initial Sr and Nd ratios of the Aji granite are in concentrate range of the Ryoke granite. Rb-Sr whole - rock and mineral isochron ages were rejuvenated by effect of chlorite. K-Ar biotite ages, which were not affected by chlorite, range from 79.4Ma to 80.4Ma. K-Ar hornblende age is 83.5Ma. These ages suggest rapid cooling after emplacement.