

High Ba igneous rocks from the Central Belt of Peninsular Malaysia and its implication

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Trace element characteristics of gabbro-monzonite-syenite from the Benom Igneous Complex, Sungai Ruan, Raub show that they are very high in large ion lithophile (LIL) elements. The rocks contain: Ba (2,401–10,744 ppm; mean: 4,590 ppm), Rb (257–434 ppm) and Sr (578–2,340 ppm; mean: 1,000 ppm) which is higher compared to the rocks from other areas. The strong enrichment of these elements (Ba and Sr) is probably related to transfer of enriched (hydrous?) fluids from the mantle into the lower crust and possibly initiated melting to form the rocks besides the possibility of being linked to mantle plumes.