

Geochemical characteristics of the granitic rocks from Boundary Range Batholith, Peninsular Malaysia

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Geochemical characteristics of Boundary Range granite are similar to those of the Eastern Belt Granite and not to those of the Western Belt Granite. Although, the majority of the rocks from the Boundary Range granite have SiO_2 contents ($> 65\% \text{SiO}_2$) similar to those of Western Belt granite, other elements such as P_2O_5 , Na_2O , Ba and Sr are very different. The Boundary Range granite can be classified as 'T' type granite as the granite has high Na_2O content, abundance of mafic microgranular enclave, contain sphene and hornblende and increasing ACNK values with SiO_2 . Simple modeling of the granite using log-log Ba vs Sr plot suggest that plagioclase, K-feldspar and biotite are important crystallisation phases in the magmatic evolution.