

Title : Geochemistry of Intrusive Igneous Rocks in Thoen District, Lampang Provinc

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## ABSTRACT

The study of the geochemistry of intrusive igneous rocks in Thoen District, Lampang Province, aims to investigate the geochemical composition, classify the intrusive igneous rocks, and determine the geological environment in which these rocks formed. The intrusive igneous rocks in the study area appear as small outcrops and are not recorded on existing geological maps. A geochemical analysis was conducted on 21 least-altered rock samples, allowing for rock classification based on their chemical composition. The samples were categorized into six rocks: monzonite (2 samples), granite (9 samples), granodiorite (4 samples), diorite (4 samples), gabbroic diorite (1 sample) and quartz monzonite (1 sample). Additionally, the study identified the magma series of the intrusive igneous rocks in the study area as belonging to the high-alkali calc-alkaline series, this suite can be classified as I-type granite. Furthermore, the findings suggest that these rocks formed in a within-plate continental setting and a volcanic arc environment. Geochemical

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evidence further supports that these intrusive rocks, observed as small outcrops in Thoen District, Lampang Province, are part of the Eastern Granite Belt of Thailand.

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