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**Syn-convergence extension in the southern Lhasa terrane: evidence from late Cretaceous adakitic granodiorite and coeval gabbroic-dioritic dykes**

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**Highlights**

- Identification of Late Cretaceous adakitic granodiorite and coeval dykes.
- Identification of Late Cretaceous magma mixing in the Gangdese Belt.
- Late Cretaceous syn-convergence extension in the Lhasa terrane.

**Abstract**

Late Cretaceous (~100-80 Ma) magmatism in the Gangdese magmatic belt plays a pivotal role in understanding the evolutionary history and tectonic regime of the southern Lhasa terrane. The geodynamic process for the formation of the early Late

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