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Origin of highly refractory peridotites : implications for diversity of high-Mg andesite magma genesis

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Genesis of highly refractory peridotites, defined as peridotites more depleted than abyssal ones, in the Kamuikotan belt, Hokkaido, northern Japan, is discussed in the context of formation of high-Mg andesite magmas. They are produced either by partial melting of peridotite under the hydrous condition or by reaction between magma and peridotite at low pressures.