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Calcium is an essential factor that involved in modulation of cellular functions, such as cell differentiation, survival, and apoptosis. Parvalbumin is a calcium buffering protein that modulates intracellular calcium concentration. Catechin has an excellent antioxidant property and exerts a neuroprotective effect. This study investigated whether catechin can regulate parvalbumin expression and intracellular calcium concentration in middle cerebral artery