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Immunocytochemical detection of poly- γ -glutamate (γ PGA) expressed in tobacco leaf tissues.

Left panel, Whole mount staining of leaf containing parts transformed with control vector (left) or a mixture of *pgsA*, *pgsB*, and *pgsC* *Agrobacterium* strains (right) separated by a vein. Right panel, Cross-section of leaf (4 μ m thick) transformed with a mixture of *pgsA*, *pgsB*, and *pgsC* *Agrobacterium* strains.

The *pgsA*, *pgsB*, and *pgsC* form the γ PGA synthetase system (*pgs*) complex. These immunocytochemical results indicate that the *pgs* complex expressed transiently in tobacco tissues could produce sufficient γ PGA.

Related article: Tarui, Y., Iida, H., Ono, E., Miki, W., Hirasawa, E., Fujita, K., Tanaka, T., and Taniguchi, M., "Biosynthesis of poly- γ -glutamic acid in plants: transient expression of poly- γ -glutamate synthetase complex in tobacco leaves", *J. Biosci. Bioeng.*, vol. 100, 443-448 (2005).

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