

**Anti-tumor effects of Fermented Papaya Preparation
(FPP: SAIDO-PS501) パパイア発酵食品 (FPP: SAIDO-
PS501) の抗腫瘍作用**

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There are many reports which Fermented Papaya Preparation (FPP: SAIDO-PS501) has beneficial effects of antioxidative and immunomodulatory function. We have reported the effects of FPP on innate immunity by stimulation of human PBMC and induction of IFN γ (70th Annual Meeting of JCA) . Here, we examined whether oral or intraperitoneal administration of FPP prevents tumorigenesis by 3-methylcholanthrene (MCA) or RL male 1 rejection in mice.

Female BALB/c mice were subcutaneously injected MCA (200 μ g/mouse) dissolved in peanut oil into the back. While, RL male 1 was inoculated subcutaneously with 2×10^5 into the back of BALB/c mice. FPP or glucose was administrated in drinking water *ad libitum* during experimental period from 4 weeks before injection of MCA or RL male 1. On 18 weeks after the MCA injection, ratio of tumorigenesis in FPP drinking mice was lower than in glucose administration mice. Suppressive rates were 70-63% in tow individual experiment. Moreover, oral administration of FPP caused rejection of RL male 1 earlier than glucose group with significant difference. These results suggest that FPP has anti-tumor effect, and further study is needed to elucidate the mechanism.