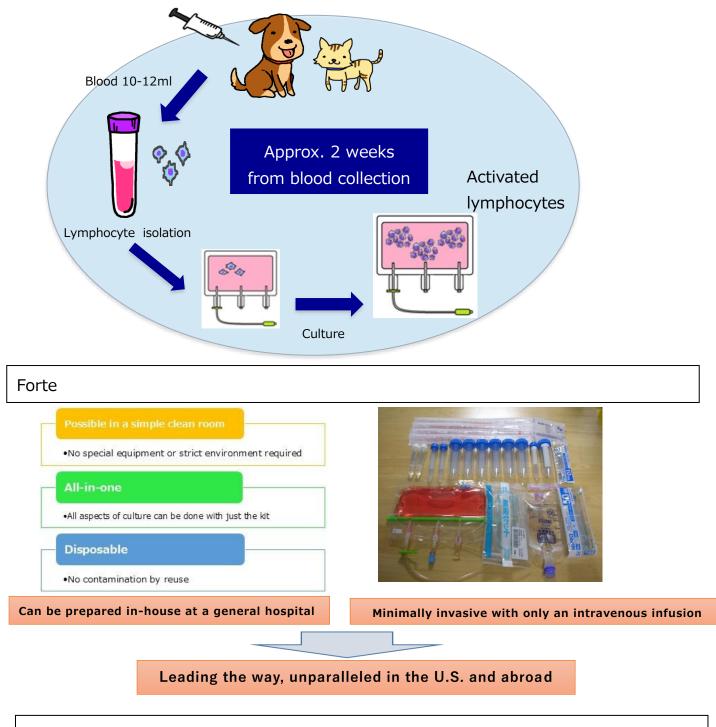


Culture kit for activated lymphocytes (CAT)

The Activated Lymphocyte Culture Kit is a kit for convenient culture of activated lymphocytes from canine and feline peripheral blood.



Composition

This all-in-one culture kit includes everything necessary for culture, including culture bag, culture medium, and pipettes.

Application Examples

Using our activated lymphocyte culture kit, we cultured canine peripheral blood. In the obtained cultured cells, gene expression levels of IFN-r, which enhances the ability to attack cancer cells, and proenkephalin, an opioid that exerts analgesic effects, increased 3.5- and 2.7-fold, respectively, compared to those before culture (Figure 1). In addition, when these cultured cells were cultured together with cancer cells, most of the cancer cells were killed (Figure 2). These results indicate that opioid production from the proliferating cells as well as IFN-r production increased and their ability to kill cancer cells increased.

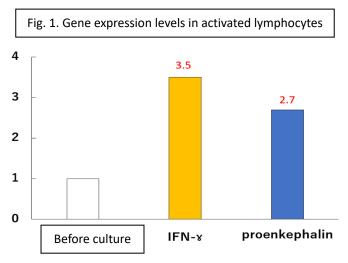
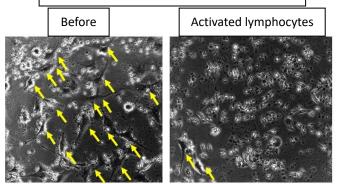


Fig. 2. Tumor-killing activity for cancer cells



(Left: Spindle-shaped cancer cells (yellow arrows) proliferate; Right: Cancer cells die)

Literature and Presentations

1) Mitani K, Ito Y, Takene Y, Hatoya S, Sugiura K, Inaba T. Quality of life-improving effect of autologous ex vivo expanded cytotoxic and opioid-producing lymphocytes for dogs with cancers. Vet. Immunol. Immunopathol. 2021.

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3) Tohya S, Mitani K, Ito Y, Inaba T, Okada K. (J-ARM Inc.), QOL evaluation by owners in canine cancer immunotherapy and fat

stem cell therapy, 160th Annual Meeting of the Japanese Society of Veterinary Science 2017.

J-ARM Corporation

5-9-27-201 Abenosuji, Abeno-ku, Osaka-shi, Osaka TEL&FAX : 06-7890-5959 order@j-arm.com

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