

# PD-L1 Induction by Cancer-Associated Fibroblast-Derived Factors in Lung Adenocarcinoma Cells

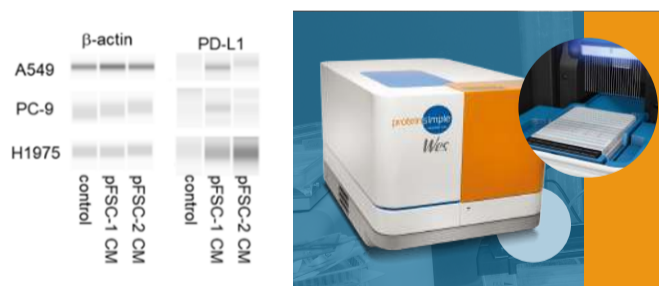
[Click Here >>](#)

Chihiro Inoue 1,\*, Yasuhiro Miki 2, Ryoko Saito 1, Shuko Hata 3, Jiro Abe 4, Ikuro Sato 5, Yoshinori Okada 6 and Hironobu Sasano 1

Cancer-associated fibroblasts (CAFs) exert various effects upon biological behaviours of cancer. In this study, we examined the correlation of CAFs with the intra-tumoural immune system in the lung adenocarcinoma microenvironment. We studied 27 and 113 cases of lung adenocarcinoma tentatively as Cohorts 1 and 2, respectively. The patients in Cohort 1 received epidermal growth factor receptor-tyrosine kinase inhibitor (EGFR-TKI) for recurrent lung adenocarcinoma.  $\alpha$ -smooth muscle actin ( $\alpha$ -SMA), a surrogate marker for CAFs, was examined by immunohistochemistry. We then examined the effects of CAFs isolated from lung cancer tissues on programmed death ligand 1 (PD-L1) expression in lung adenocarcinoma cell lines. No significant associations were detected between  $\alpha$ -SMA status and the ratios of CD8/CD4 and Foxp3/CD8 in Cohort 1. However,  $\alpha$ -SMA status was significantly associated with PD-L1 status in both Cohorts 1 and 2. Conditioned medium of CAFs significantly induced PD-L1 expression in lung adenocarcinoma cell lines, A549, PC-9, and H1975. Among the cytokines examined by antibody array, C-X-C motif chemokine ligand 2 (CXCL2) increased PD-L1 mRNA expression in these cell lines. CXCL2 is therefore considered to have a potential to induce PD-L1 expression in lung adenocarcinoma cells as a result of an interaction between carcinoma cells and CAFs. These findings did firstly demonstrate that CAFs indirectly influenced tumour immunity through increasing PD-L1 expression in lung adenocarcinoma cells.

논문에서 **ng/mL 농도의 protein만 가지고도 PD-L1 발현양을 확인할 수 있었던 이유?**

**Wes라서 가능했습니다!**



논문 Fig4. (D)

**High Sensitivity:** 일반 WB보다 8배 높은 sensitivity

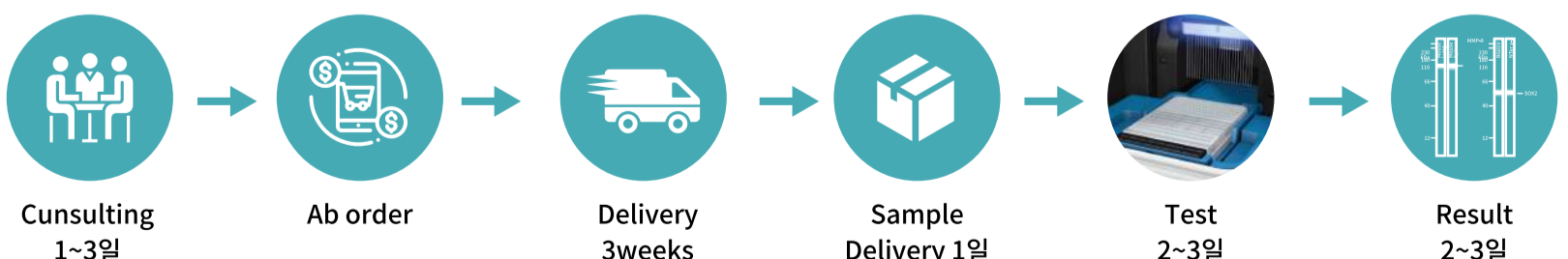
**Less Sample & less Ab:** 0.6ug Sample (최소농도 0.25mg/ml)

**Multiplex Western:** 최대 4개 targets 동시 분석 / sample

**3hrs Run time:** from loading to result

**Full Automation:** 높은 재현성

응비 분석서비스 의뢰 가능



담당자: 학술마케팅부서 한소영 과장 (techserv@woongbee.com / 02-881-5432 (내선 731))