

Overexpression of Mucin 1 suppresses the therapeutical efficacy of disulfiram against canine mammary tumor

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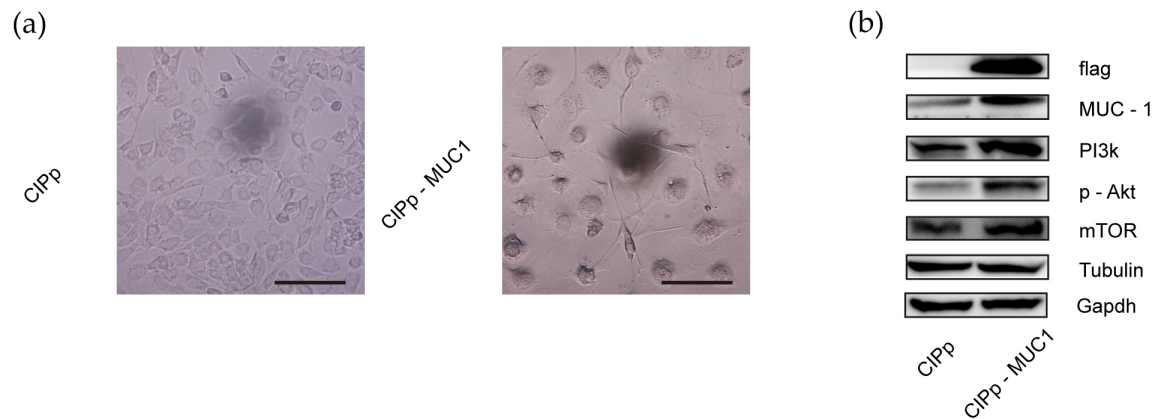


Figure S1. Validation of CIPp-MUC1 cell line. (a) Morphology of CIPp and CIPp-MUC1 cells under bright field microscope (bar= 50 μ m). (b) Western blot analysis of MUC1, flag, PI3K, p-Akt, mTOR in CIPp or CIPp-MUC1 cells. Tubulin and Gapdh were set as internal control.

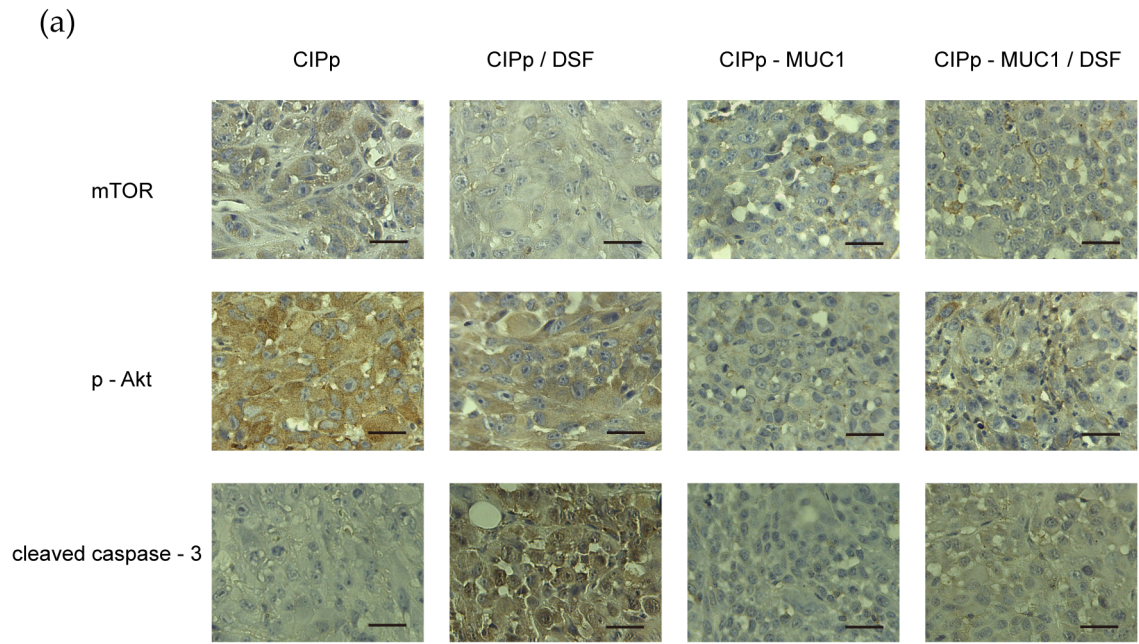


Figure S2. Immunohistochemical analysis of the effect of disulfiram on PIK3/Akt signal in xenograft tumors. (a) Immunohistochemical analysis of the level of mTOR, p-AKT and cleaved caspase-3. CIPp and CIPp-MUC1 xenograft tumors with or without 100 nM of disulfiram were compared. Brown color indicated positive signal. Bar=30 μ m

(a)

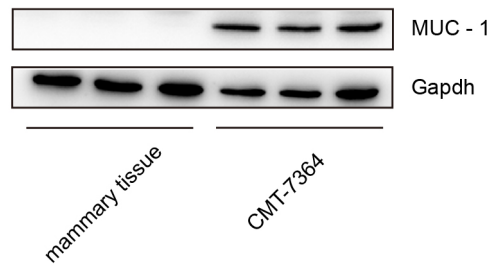


Figure S3. Western blot analysis of MUC1 in tumor formed by CMT-7364 or non-lactating mammary tissue. Gapdh was set as internal control.

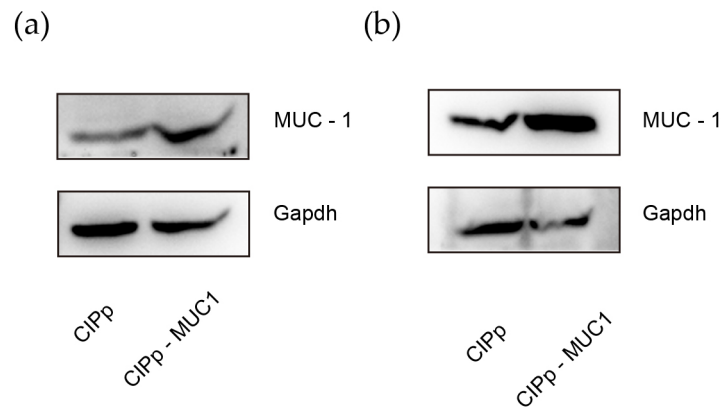


Figure S4. MUC-1 expression in different passages of CIPp-MUC1 cell line. (a) Western blot analysis of MUC1 in 10th generation of CIPp-MUC1 cells (right) and non-transfected CIPp cells (left). (b) Western blot analysis of MUC1 in 30th generation of CIPp-MUC1 cells (right) and non-transfected CIPp cells (left). Gapdh were set as internal control.

Original images of all Western blot figures

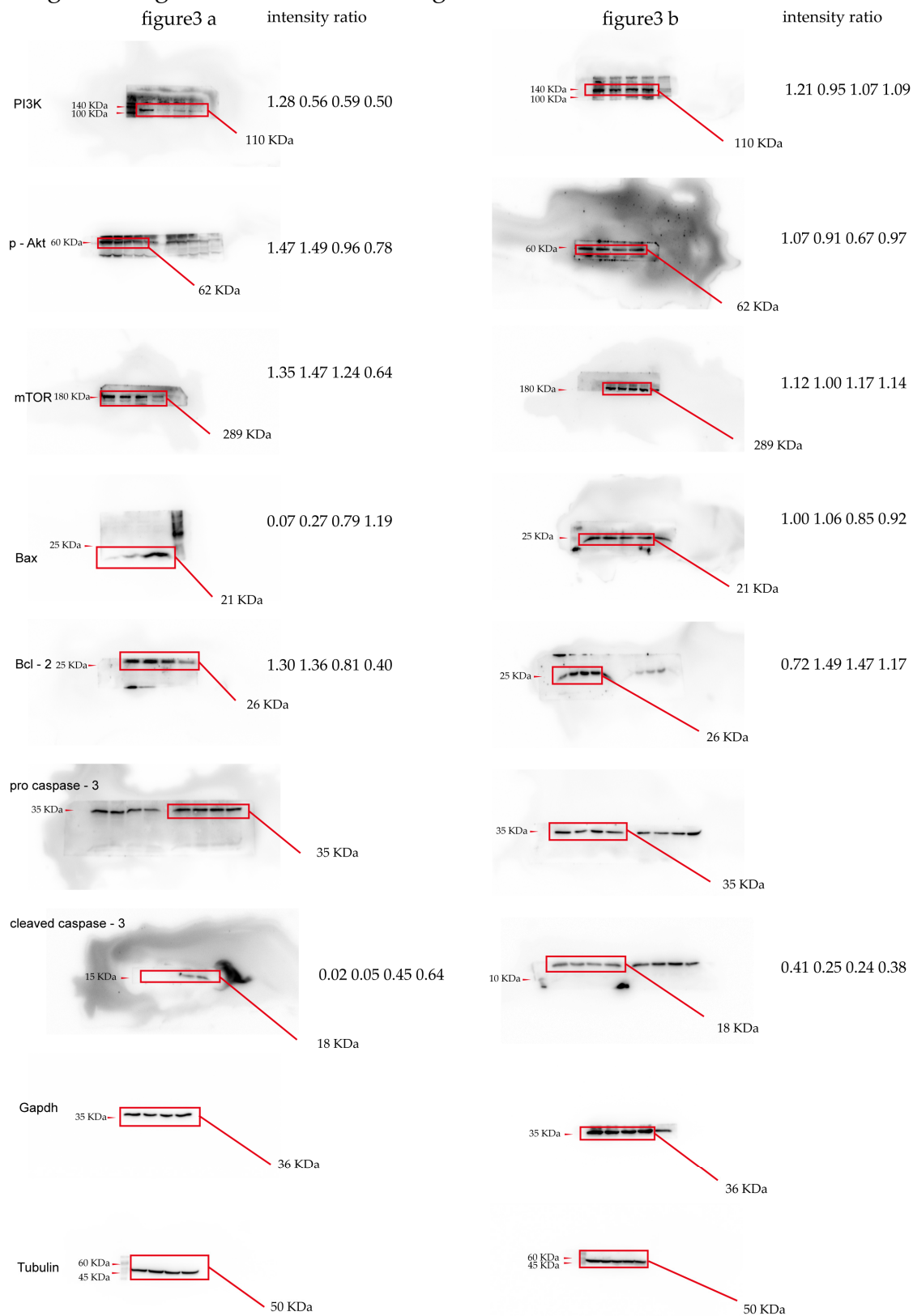


figure4 d

intensity ratio

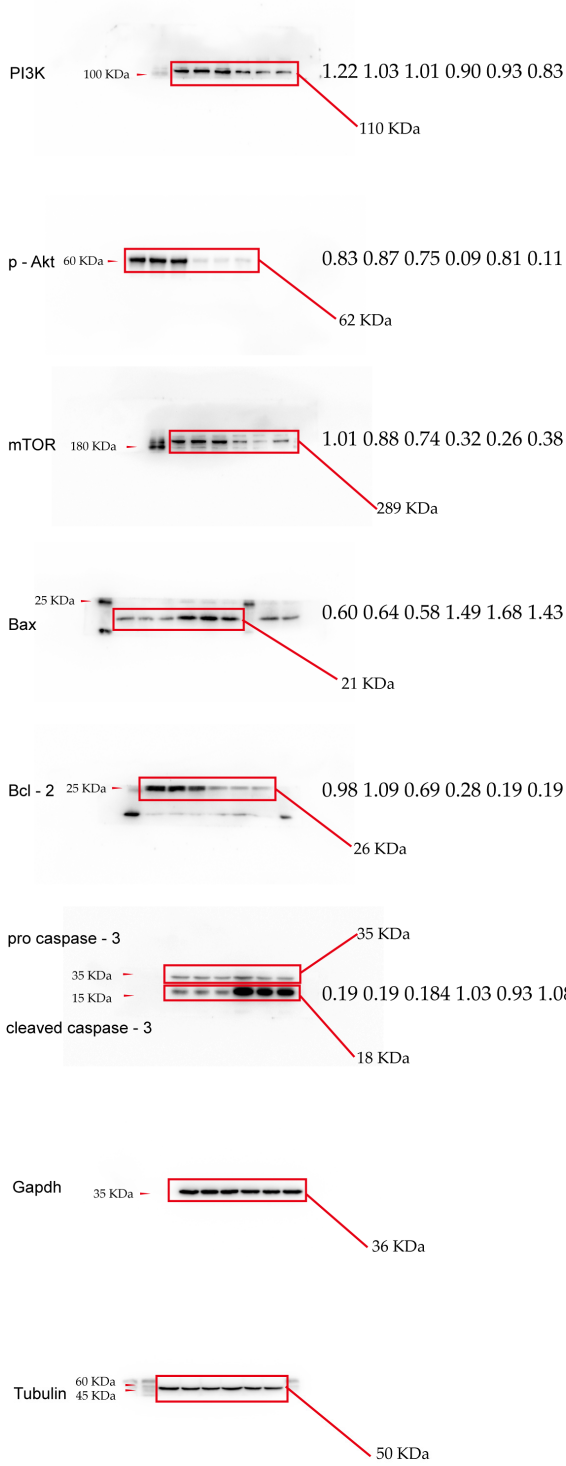
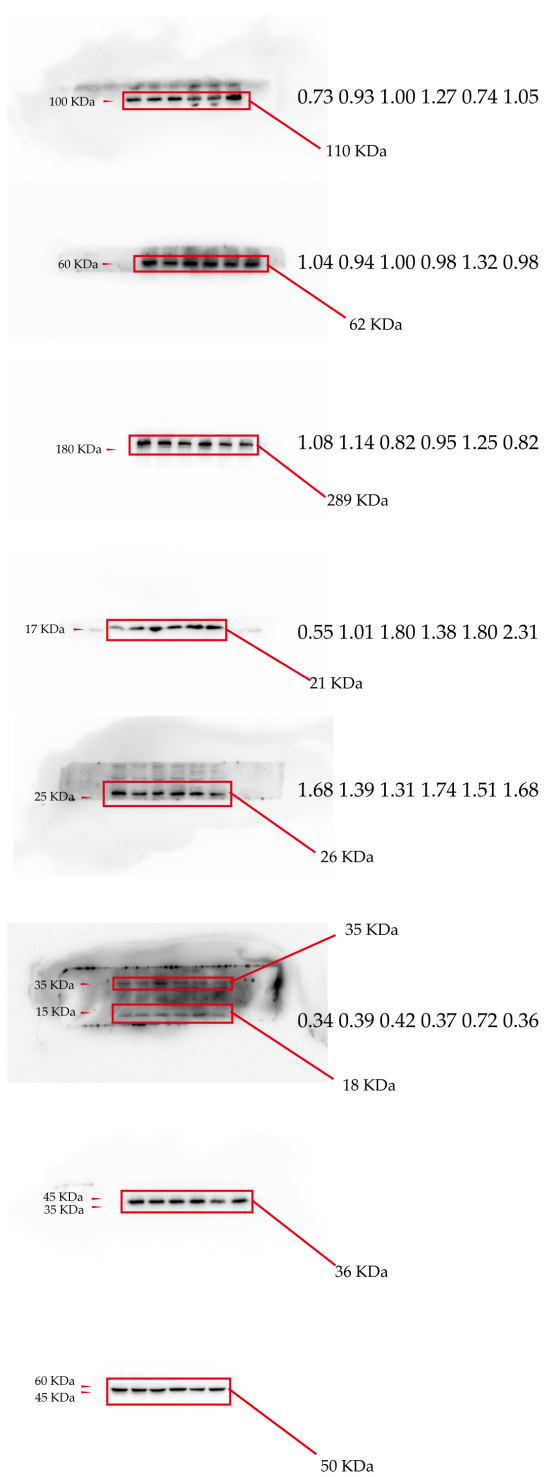


figure4 e

intensity ratio



figureS 1

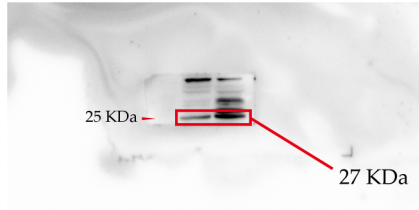
intensity ratio

flag



0.068 1.06

MUC - 1



0.41 1.02

PI3k



1.08 1.10

p - Akt



0.40 0.87

mTOR

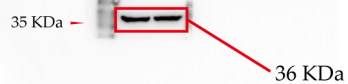


0.84 1.05

Tubulin

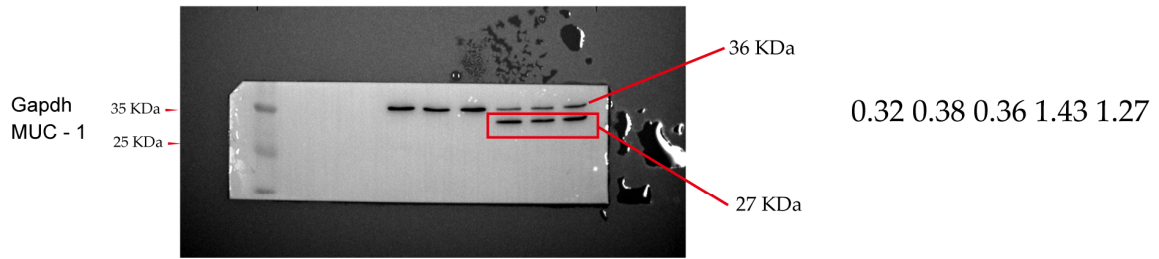


Gapdh



figureS 3

intensity ratio



figureS 4

