

Fig.2 Detection of endogenous level of IGSF8 in crude extract of NIH3T3 cells by using anti-IGSF1 antibody.

Proteins in 40 μ g of the cell extract were separated by 12.5% SDS-PAGE and electro-blotted at 15v, over night (wet system).

Blocking , 1hr, room temp.

1st antibody 1/1000 dilution

2nd, Goat polyclonal secondary antibody to rabbit IgG-H&L (HRP), ab97051

Positions marker proteins are shown in kDa on the left

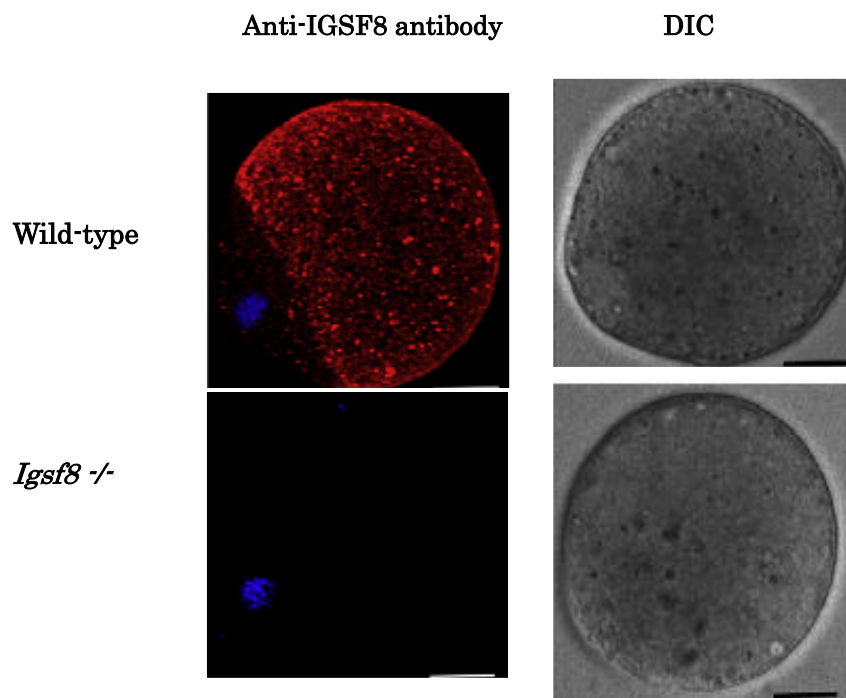


Fig.3. Immunofluorescence staining of IGSF8 protein in eggs of wild-type mouse and *Igsf8* knock-out mouse with anti-IGSF8 antibody.

Zona-free eggs were fixed in PBS containing 0.5% (v/v) polyvinylpyrrolidone and 4% (v/v) paraformaldehyde. The anti-IGSF8 antibody was used at 1/100 dilution and as the second antibody, Alexa-Fuor 546 labeled anti-rabbit IgG was used (red). Then the DNA was stained with Hoechst 33342 (blue). "DIC" is picture of Differential Interfererence Contrast microscopy.

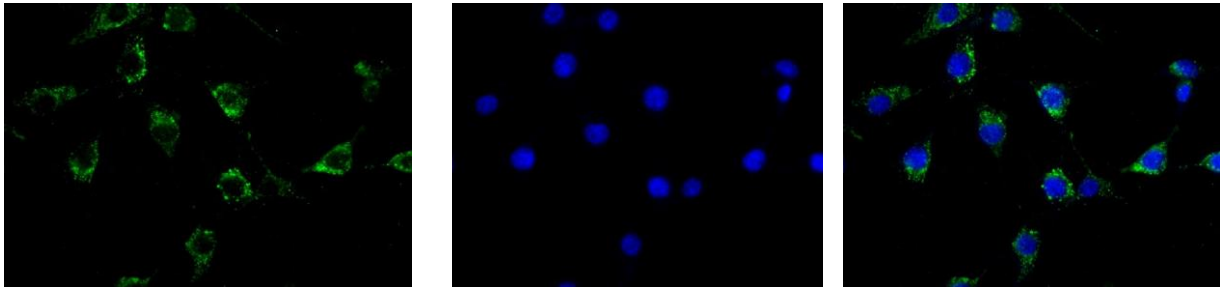


Fig.4. Immunofluorescence staining of IGSF8 protein in NIH3T3 cells with anti-IGSF8 antibody.

NIH3T3 cell were fixed in 4% (v/v) paraformaldehyde. The anti-IGSF8 antibody was used at 1/100 dilution and as the second antibody, Alexa-Fuor 488 labeled anti-rabbit IgG was used (green) at 1/1,000 dilution. DNA was stained with DAPI (blue).

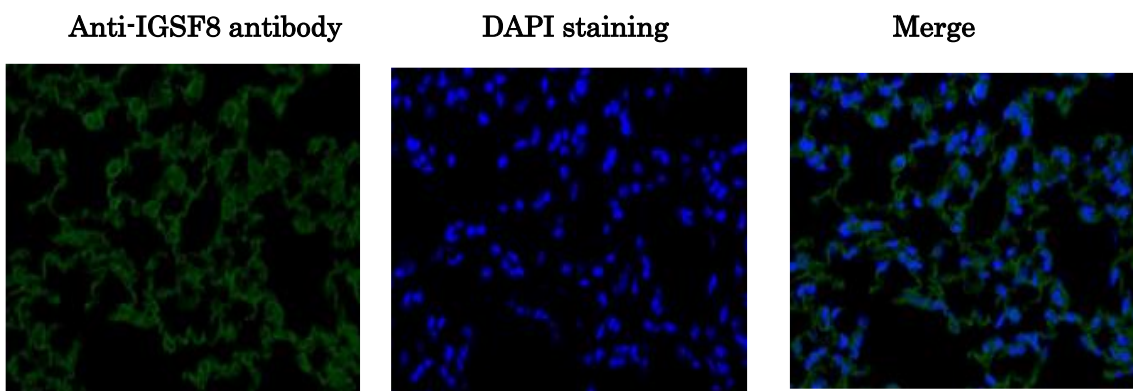


Fig.5 Immunohistochemical staining of IGSF8 protein in mouse lung tissue section using anti-IGSF1 antibody.

4% PFA fixed section of mouse lung tissue

Deparaffinization ; Lemosol^{RA} (#122-03991,Wako, Osaka)

Rehydration

Antigen retrieval; Histo/Zyme (Cat.# k046; Diagnostic BioSystems)

Washing; PBST (0.25% triton X-100/PBS⁻)

Blocking; 1 % BSA/ PBST 60 min

1st antibody; 1/100 dilution in PBS⁻ 4°C overnight

Washing; PBS⁻

2nd antibody; 1/1,000 dilution, 60 min

Washing; PBS⁻, 5 min 3 times

DAPI; 1.0 µg/mL DAPI in TBS 10 min

Washing; PBS⁻

Mount; ImmunoSelect Antifading Mounting Medium (SCR-38447; Dianova)