Anti-IGSF8 antibody, rabbit polyclonal, KO-Validated

73-038 100 μl

Validation: Specificity validated with knock-out mouse (Fig.1)

Storage: Shipped at 4°C and store at -20°C..

Reactivity: Mouse. Likely to react with rat and human due to high sequence homology.

Applications:

1. Western blotting (1/500~1/1,000 dilution))
2. Immunofluorescence and immunochemical staining (1/100 dilution).
3. Immunohistochemical staining (1/100)

Immunogen: Full-length mouse IGSF8 with Flag tag

Form: 0.5 mg/ml IgG fraction of antiserum in PBS, 50% glycerol, 0.05% sodium azide.

Function: IGSF8 may play a key role in diverse functions ascribed to CD81 and CD9 such as oocytes fertilization or hepatitis C virus function. May regulate proliferation and differentiation of keratinocytes. May be a negative regulator of cell motility: suppresses T-cell mobility coordinately with CD81, associates with CD82 to suppress prostate cancer cell migration, regulates epidermoid cell reaggregation and motility on laminin-5 with CD9 and CD81 as key linkers. May also play a role on integrin-dependent morphology and motility functions. May participate in the regulation of neurite outgrowth and maintenance of the neural network in the adult brain.

Molecular mass: 65,011 Da with 611 amino acids

Data Links: uniprot/Q8R366 mouse IGSF8 Gene ID140559 mouse IGSF8

Reference: This antibody was described and used in the following publication.


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F/- & -- & F/- & -- & F/- & -- \\
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Thymus Lung Ovary

Fig 1. Analysis of IGSF8 protein in various tissues of Igff8-targeted mice by western blotting with anti-IGFS8 antibody. Lysates of tissues (30 μg) were analyzed by western blotting using the antibody at 1/500 dilution. “ F ” and “ – ” stand for floxed and knock-out alleles, respectively.
Fig. 2 Detection of endogenous level of IGSF8 in crude extract of NIH3T3 cells by using anti-IGSF1 antibody.

Proteins in 40 μg 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 Interference 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®A (#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)