Anti-FGF18 Antibody [PSH01-25]

HA721642

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	WB
Molecular Wt:	Predicted band size: 24 kDa
Clone number:	PSH01-25

Description: Fibroblast growth factor 18 is a protein that in humans is encoded by the FGF18 gene. The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. It has been shown in vitro that this protein is able to induce neurite outgrowth in PC12 cells. FGF18 signals through fibroblast growth factor receptor FGFR3 to promote chondrogenesis and has been shown to cause thickening of cartilage in a murine model of osteoarthritis, and the recombinant version of it (sprifermin) is in clinical trial as a potential treatment for osteoarthritis. Studies of the similar proteins in mouse and chick suggested that this protein is a pleiotropic growth factor that stimulates proliferation in a number of tissues, most notably the liver and small intestine. Knockout studies of the similar gene in mice implied the role of this protein in regulating proliferation and differentiation of midline cerebellar structures.

Immunogen: Recombinant protein within mouse FGF18 aa 1-207 / 207.

Subcellular location: Secreted.

Database links: SwissProt: O89101 Mouse

Recommended Dilutions:

WB 1:1,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

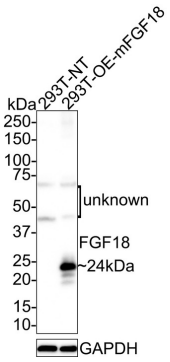


Fig1: Western blot analysis of FGF18 on different lysates with Rabbit anti-FGF18 antibody (HA721642) at 1/1,000 dilution.

Lane 1: 293T whole cell lysate
Lane 2: 293T overexpress mouse FGF18 whole cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 24 kDa
Observed band size: 24 kDa

Exposure time: 15 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721642) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Guo K et al. HDAC7 promotes NSCLC proliferation and metastasis via stabilization by deubiquitinase USP10 and activation of β-catenin-FGF18 pathway. J Exp Clin Cancer Res. 2022 Mar
2. Yue M et al. Tissue-specific analysis of Fgf18 gene function in palate development. Dev Dyn. 2021 Apr