

Anti-FGF21 Antibody [JA10-97]

ET1704-04



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IF-Tissue
Molecular Wt:	Predicted band size: 22 kDa
Clone number:	JA10-97

Description: Fibroblast growth factor-1 (FGF-1), also designated acidic FGF, and fibroblast growth factor-2 (FGF-2), also designated basic FGF, are members of a family of growth factors that stimulate proliferation of cells of mesenchymal, epithelial and neuroectodermal origin. Additional members of the FGF family include the oncogenes FGF-3 (Int2) and FGF-4 (hst/Kaposi), FGF-5, FGF-6, FGF-7 (KGF), FGF-8 (AIGF), FGF-9 (GAF) and FGF-10-FGF-23. Members of the FGF family share 30-55% amino acid sequence identity and similar gene structure and are capable of transforming cultured cells when overexpressed in transfected cells. Cellular receptors for FGFs are members of a second multigene family including four tyrosine kinases, designated Flg (FGFR-1), Bek (FGFR-L), TKF and FGFR-3.

Immunogen: Synthetic peptide within Human FGF21 aa 30-79 / 209.

Positive control: Human liver tissue lysates, Mouse spleen tissue lysate, Mouse thymus tissue lysate, Rat spleen tissue lysate, Rat testis tissue lysate, Mouse liver tissue lysate, mouse liver tissue, rat liver tissue.

Subcellular location: Secreted.

Database links: SwissProt: Q9NSA1 Human | Q9JJN1 Mouse
Entrez Gene: 170580 Rat

Recommended Dilutions:

WB	1:1,000-1:5,000
IHC-P	1:1,000
IF-Tissue	1:200

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

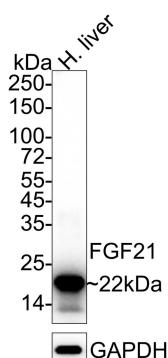
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of FGF21 on human liver tissue lysates with Rabbit anti-FGF21 antibody (ET1704-04) at 1/2,000 dilution.



Lysates/proteins at 20 µg/Lane.

Predicted band size: 22 kDa

Observed band size: 22 kDa

Exposure time: 10 seconds; ECL: K1801;

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 (ET1704-04) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

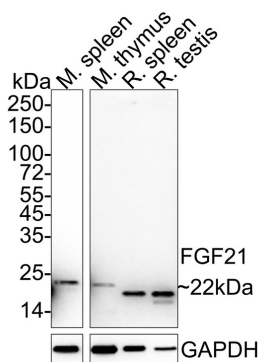
Fig2: Western blot analysis of FGF21 on different lysates with Rabbit anti-FGF21 antibody (ET1704-04) at 1/2,000 dilution.

Lane 1: Mouse spleen tissue lysate

Lane 2: Mouse thymus tissue lysate

Lane 3: Rat spleen tissue lysate

Lane 4: Rat testis tissue lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 22 kDa

Observed band size: 22 kDa

Exposure time: Lane 1: 20 seconds; Lane 2-4: 2 seconds; ECL: K1801;

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 (ET1704-04) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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Fig3: Western blot analysis of FGF21 on different lysates with Rabbit anti-FGF21 antibody (ET1704-04) at 1/2,000 dilution.

Lane 1: Mouse spleen tissue lysate

Lane 2: Mouse liver tissue lysate

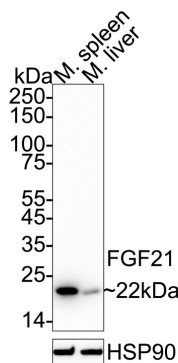
Lysates/proteins at 20 µg/Lane.

Predicted band size: 22 kDa

Observed band size: 22 kDa

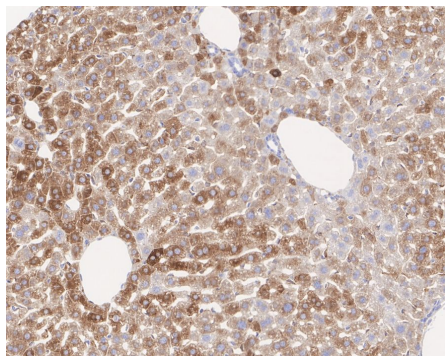
Exposure time: 40 seconds; ECL: K1801;

4-20% SDS-PAGE gel.



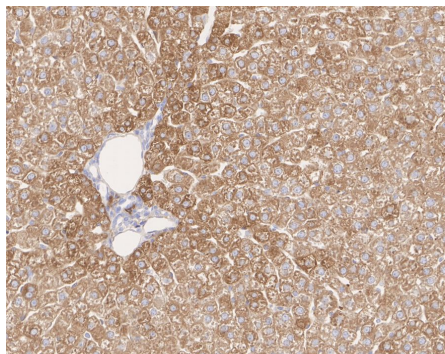
Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1704-04) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig4: Immunohistochemical analysis of paraffin-embedded mouse liver tissue with Rabbit anti-FGF21 antibody (ET1704-04) at 1/1,000 dilution.



The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1704-04) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Fig5: Immunohistochemical analysis of paraffin-embedded rat liver tissue with Rabbit anti-FGF21 antibody (ET1704-04) at 1/1,000 dilution.



The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1704-04) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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

Background References

1. Hu C et al. Tumor-secreted FGF21 acts as an immune suppressor by rewiring cholesterol metabolism of CD8(+)T cells. *Cell Metab.* 2024 Mar
2. Tan H et al. Targeting FGF21 in cardiovascular and metabolic diseases: from mechanism to medicine. *Int J Biol Sci.* 2023 Jan

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