

# Anti-FGFR3 Antibody [JM110-33] - BSA and Azide free

## HA750388



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell, IF-Tissue, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 88 kDa
<b>Clone number:</b>	JM110-33

**Description:** Acidic and basic fibroblast growth factors (FGFs) are members of a family of multifunctional polypeptide growth factors that stimulate proliferation of cells of mesenchymal, epithelial and neuroectodermal origin. Like other growth factors, FGFs act by binding and activating specific cell surface receptors. These include the Flg receptor or FGFR-1, the Bek receptor or FGFR-2, FGFR-3, FGFR-4, FGFR-5 and FGFR-6. These receptors usually contain an extracellular ligand-binding region containing three immunoglobulin-like domains, a transmembrane domain and a cytoplasmic tyrosine kinase domain. The gene encoding human FGFR-3 maps to chromosome 4p16 and is alternatively spliced to produce three isoforms that are expressed in brain, kidney and testis. Defects in FGFR-3 are associated with several diseases, including Crouzon syndrome, achondroplasia, thanatophoric dysplasia, craniosynostosis adelaide type and hypochondroplasia. Mutations in FGFR-3 are also a cause of some bladder and cervical cancers.

**Immunogen:** Synthetic peptide within Human FGFR3 aa 30-63 / 806.

**Positive control:** Hela cell lysate, 293 cell lysate, MCF-7 cell lysate, HepG2 cell lysate, Rat skin tissue lysates, Mouse hippocampus lysates, MCF-7, HepG2, SH-SY5Y, human kidney tissue, mouse testis tissue, mouse kidney tissue, mouse brain tissue.

**Subcellular location:** Cell membrane, Endoplasmic reticulum, Cytoplasmic vesicle, Secreted.

**Database links:** SwissProt: P22607 Human | Q61851 Mouse  
Unigene: 23671 Rat

### Recommended Dilutions:

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:50-1:200
<b>IF-Tissue</b>	1:500-1:2,000
<b>IHC-P</b>	1:10,000-1:20,000

**Storage Buffer:** 1\*PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

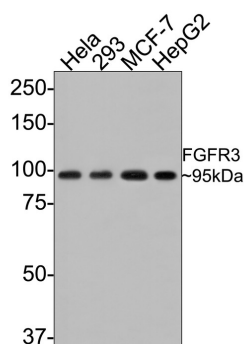
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## Images

**Fig1:** Western blot analysis of FGFR3 on different lysates with Rabbit anti-FGFR3 antibody (HA750388) at 1/1,000 dilution.

Lane 1: HeLa cell lysate  
Lane 2: 293 cell lysate  
Lane 3: MCF-7 cell lysate  
Lane 4: HepG2 cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 88 kDa  
Observed band size: 95 kDa

Exposure time: 1 minute;

8% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA750388) at 1/1,000 dilution was used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

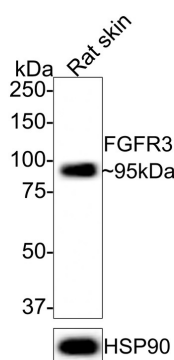
**Fig2:** Western blot analysis of FGFR3 on Rat skin tissue lysates with Rabbit anti-FGFR3 antibody (HA750388) at 1/1,000 dilution.

Lysates/proteins at 20 µg/Lane.

Predicted band size: 88 kDa  
Observed band size: 95 kDa

Exposure time: 8 seconds;

8% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA750388) at 1/1,000 dilution was used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:10,000 dilution was used for 1 hour at room temperature.

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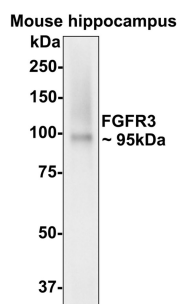
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**Fig3:** Western blot analysis of FGFR3 on Mouse hippocampus lysates with Rabbit anti-FGFR3 antibody (HA750388) at 1/500 dilution.



Lysates/proteins at 20 µg/Lane.

Predicted band size: 88 kDa

Observed band size: 95 kDa

Exposure time: 1 minute;

8% 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 (HA750388) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:40,000 dilution was used for 1 hour at room temperature.

**Fig4:** Western blot analysis of FGFR3 on different lysates with Rabbit anti-FGFR3 antibody (HA750388) at 1/1,000 dilution.

Lane 1: HEK293-si NT cell lysate

Lane 2: HEK293-si FGFR3 cell lysate

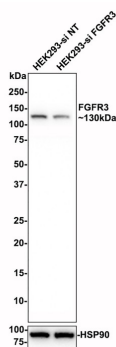
Lysates/proteins at 10 µg/Lane.

Predicted band size: 88 kDa

Observed band size: 130 kDa

Exposure time: 1 minute;

4-20% SDS-PAGE gel.



ET1703-65 was shown to specifically react with FGFR3 in HEK293-si NT cells. Weakened band was observed when HEK293-si FGFR3 sample was tested. HEK293-si NT and HEK293-si FGFR3 samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM in TBST for 1 hour at room temperature. The primary antibody (ET1703-65, 1/1,000) and Loading control antibody (Rabbit anti-HSP90, ET1605-56, 1/10,000) were used in 5% BSA at room temperature for 2 hours. Goat Anti-rabbit IgG-HRP Secondary Antibody (HA1001) at 1:50,000 dilution was used for 1 hour at room temperature.

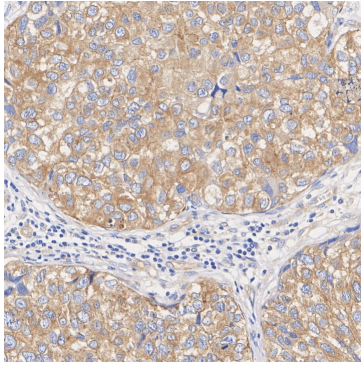
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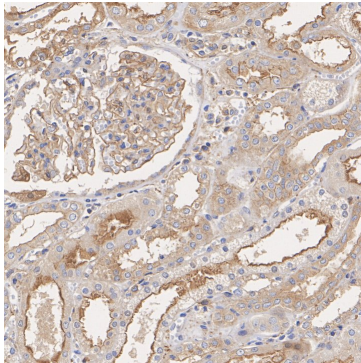
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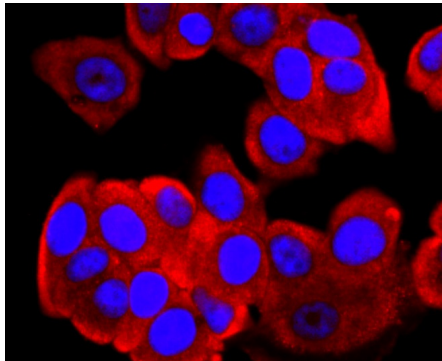
**Fig5:** Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue with Rabbit anti-FGFR3 antibody (HA750388) at 1/10,000 dilution.

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 ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA750388) at 1/10,000 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.



**Fig6:** Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-FGFR3 antibody (HA750388) at 1/10,000 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 ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA750388) at 1/10,000 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.



**Fig7:** ICC staining of FGFR3 in MCF-7 cells (red). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 10% negative goat serum for 15 minutes at room temperature. Cells were probed with the primary antibody (HA750388, 1/50) for 1 hour at room temperature, washed with PBS. Alexa Fluor®594 Goat anti-Rabbit IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).

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

### Background References

1. Delpuech O et al. Identification of Pharmacodynamic Transcript Biomarkers in Response to FGFR Inhibition by AZD4547. *Mol Cancer Ther* 15:2802-2813 (2016).
2. Capelletti M et al. Identification of recurrent FGFR3-TACC3 fusion oncogenes from lung adenocarcinoma. *Clin Cancer Res* 20:6551-8 (2014).

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