



# Anti-Human FGF-17

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>102-P126</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant hFGF-17. Anti-hFGF-17 specific antibody was purified by affinity chromatography employing immobilized hFGF-17 matrix.

## Target Background

<b>Synonyms (Target):</b>	FGF17; FGF-13; fibroblast growth factor 17
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Fibroblast growth factors (FGFs) play multiple biological functions including angiogenesis, mitogenesis, cellular differentiation and wound repairing. All members of the FGF family have a conserved approximately 120 amino acid core with 30-70% identity. Among FGF family members, FGF17 is most similar to FGF8 (60% sequence identity) and FGF18 (50% sequence identity). The mRNA of FGF17 was found in midgestation of embryo and multiple adult tissues, and is preferentially expressed in specific sites, such as embryonic brain, developing skeleton and arteries. Human FGF17 shares 98.6% amino acid (aa) sequence identity with mouse FGF17. Rat FGF17 shares 100% aa sequence identity with mouse FGF17.

### Database References Target

<b>Protein RefSeq:</b>	NP_003858
<b>Uniprot ID:</b>	O60258
<b>mRNA RefSeq:</b>	NM_003867

## Product Specifications

<b>Species reactivity</b>	Human
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	Recombinant human FGF-17
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

**Western Blot:** To detect hFGF-17 by Western Blot analysis this antibody can be used at a concentration of 0.1- 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hFGF-17 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

**ELISA:** To detect hFGF-17 by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with an appropriate secondary antibody as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hFGF-17.

**Neutralisation:** To yield one-half maximal inhibition [ $ND_{50}$ ] of the biological activity of hFGF-17 (1.5 ng/ml), a concentration of 0.020-0.035 µg/ml of this antibody is required.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**