



20190628BB

# Anti-Human FGF-19 (#4G16)

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

|                  |                            |
|------------------|----------------------------|
| <b>Cat.-no.:</b> | <b>101-M406</b>            |
| Size:            | 100 µg                     |
| Lot. No.:        | According to product label |

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant protein of fibroblast growth factor receptor 19.

## Target Background

|                           |       |
|---------------------------|-------|
| <b>Synonyms (Target):</b> | FGF19 |
|---------------------------|-------|

Human FGF19 cDNA predicts a 251 aa precursor protein with a 22 aa signal peptide and a 229 aa secreted mature protein with no potential N-linked glycosylation sites. Among FGF family members, human FGF19 is most closely related to chicken FGF19 and murine FGF15, sharing approximately 61% and 51% aa sequence identity, respectively. Neither the human orthologue of mouse FGF15, nor the mouse counterpart of human FGF19 has been identified. With the exception of adult gall bladder epithelium, FGF19 expression is restricted to fetal tissues. Unlike most FGFs which bind to and activate more than one FGF receptor, FGF19 is a specific ligand for FGF R4. Similarly, another FGF family member, FGF7 (KGF), only activates KGF R, the IIIb isoform of FGF R2. During chick embryogenesis, FGF19 has been shown to act synergistically with Wnt8c to initiate inner ear development.

## Database References Target

|                        |             |
|------------------------|-------------|
| <b>Protein RefSeq:</b> | NP_005108.1 |
| <b>Uniprot ID:</b>     | O95750      |
| <b>mRNA RefSeq:</b>    | NM_005117   |

## Product Specifications

|                              |                          |
|------------------------------|--------------------------|
| <b>Host</b>                  | Mouse                    |
| <b>Reactivity against</b>    | Human                    |
| <b>Clonality</b>             | Monoclonal Antibody      |
| <b>Clone</b>                 | (#4G16)                  |
| <b>Isotype</b>               | IgG1                     |
| <b>Purification</b>          | Protein G chromatography |
| <b>Antigen</b>               | Recombinant human FGF-18 |
| <b>Formulation</b>           | lyophilized              |
| <b>Reconstitution buffer</b> | PBS (sterile)            |

**Reconstitution:** Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody was selected for its ability to detect human FGF-19.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

WB, IHC (P)

**Recommended usage:**

Western Blot: 1:500 - 1:1000

IHC (paraffine): 1:20 - 1:100

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