

## Rabbit Anti-Mouse FGFR1 / FGFR5 Monoclonal Antibody

**Cat. No.** CAB11545RM    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b>    | Rabbit Monoclonal Antibody to Mouse FGFR1 / FGFR5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>              | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Antigen Description</b> | <p>Mouse Fibroblast growth factor receptor-like 1, also known as FGF receptor-like protein 1, Fibroblast growth factor receptor 5, FGFR5, and FGFR1, is a single-pass type I membrane protein. FGFR5 is expressed preferentially in cartilaginous tissues and pancreas. It is highly expressed in the liver, kidney, heart, brain and skeletal muscle and weakly expressed in the lung, small intestine and spleen. FGFR5 contains three Ig-like C2-type (immunoglobulin-like) domains. A unique feature of FGFR5 is that it does not contain an intracellular tyrosine kinase domain. While mammals, including man and mouse, possess a single copy of the FGFR1 gene, fish have at least two copies, FGFR1a and FGFR1b. Fibroblast Growth Factors (FGF) and their receptors are well known for having major implications in cell signalling controlling embryonic development. FGFR5 has a negative effect on cell proliferation. It is first detected at embryonic day 7 and became clearly visible at day 11 and increased until day 17. FGFR5 may act as a decoy receptor for FGF ligands.</p> |
| <b>Specificity</b>         | Mouse FGFR1 / FGFR5. No cross-reactivity with human cell lysate ( 293 cell line ) in WB and ELISA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Immunogen</b>           | Recombinant Mouse FGFR1 / FGFR5 Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Isotype</b>          | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cross Reactivity</b> | 004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Clone</b>            | A005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Applications</b>     | WB; ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Dilution</b>         | Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Mouse FGFR1 in WB. Using a DAB detection system, the detection limit for Mouse FGFR1 is approximately 0.25 ng/lane under non-reducing conditions and 1 ng/lane under reducing conditions. ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Mouse FGFR1. The detection limit for Mouse FGFR1 is approximately 0.00975 ng/well. |
| <b>Preparation</b>      | This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse FGFR1 / FGFR5.                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Format</b>           | 0.2 µm filtered solution in PBS with 5% trehalose                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>          | This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.                                                                                          |

## GENE INFORMATION

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| <b>Gene Name</b>       | Fgfr1 fibroblast growth factor receptor-like 1 [ Mus musculus ] |
| <b>Official Symbol</b> | FGFR1                                                           |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | FGFRL1; fibroblast growth factor receptor-like 1; FGFR-5; FGF receptor-like protein 1; fibroblast growth factor receptor 5; FGFR5; FGFR5beta; FGFR5gamma;                                                                                         |
| <b>Gene ID</b>        | <a href="#">116701</a>                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>    | <a href="#">NM_001164259</a>                                                                                                                                                                                                                      |
| <b>Protein Refseq</b> | <a href="#">NP_001157731</a>                                                                                                                                                                                                                      |
| <b>Function</b>       | fibroblast growth factor binding; fibroblast growth factor-activated receptor activity; fibroblast growth factor-activated receptor activity; heparin binding; non-tyrosine kinase fibroblast growth factor receptor activity; receptor activity; |

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