



# Rabbit Anti-Mouse FGFR3 monoclonal antibody, clone S157 (CABT-ZB987)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| <b>Specificity</b>        | It reacts with Mouse FGFR3                                                                                                                                                                 |
| <b>Target</b>             | FGFR3                                                                                                                                                                                      |
| <b>Immunogen</b>          | Recombinant Mouse FGFR3/CD333 protein                                                                                                                                                      |
| <b>Isotype</b>            | IgG1                                                                                                                                                                                       |
| <b>Source/Host</b>        | Rabbit                                                                                                                                                                                     |
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                      |
| <b>Clone</b>              | S157                                                                                                                                                                                       |
| <b>Purification</b>       | Protein A purified                                                                                                                                                                         |
| <b>Conjugate</b>          | Unconjugated                                                                                                                                                                               |
| <b>Applications</b>       | ELISA, ELISA(det)<br>We recommend the following for sandwich ELISA (Capture - Detection):<br>CABT-ZB643 - CABT-ZB987<br>This antibody will detect FGFR3 in antibody pair set. [ABPR-ZB222] |
| <b>Preparation</b>        | This antibody was obtained from a rabbit immunized with purified, recombinant Mouse FGFR3 / CD333.                                                                                         |
| <b>Format</b>             | Purified, Liquid                                                                                                                                                                           |
| <b>Concentration</b>      | Lot specific                                                                                                                                                                               |
| <b>Size</b>               | 50 µL, 100 µL, 1 mL                                                                                                                                                                        |

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| <b>Buffer</b>       | PBS                                                                                                                                                                                                                                                |
| <b>Preservative</b> | None                                                                                                                                                                                                                                               |
| <b>Storage</b>      | This antibody can be stored at 2°C-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°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| <b>Ship</b>         | Wet ice                                                                                                                                                                                                                                            |

## BACKGROUND

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Introduction</b> | FGFR3, also known as CD333, is a member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly conserved between members and among divergent species. FGFR family members differ from one another in their ligand affinities and tissue distribution. FGFRs are transmembrane catalytic receptors that have intracellular tyrosine kinase activity. Mutations in FGFR genes are the cause of several human developmental disorders characterized by skeletal abnormalities such as achondroplasia, and upregulation of FGFR expression may lead to cell transformation and cancer. FGFR3, a full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of FGFR3 interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. FGFR3 binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in FGFR3 gene lead to craniosynostosis and multiple types of skeletal dysplasia. Three alternatively spliced transcript variants that encode different protein isoforms have been described. CD333 is the receptor for acidic and basic fibroblast growth factors. |
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| <b>Keywords</b> | FGFR3; fibroblast growth factor receptor 3; ACH; CEK2 |
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## GENE INFORMATION

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| <b>Synonyms</b>       | FGFR3; fibroblast growth factor receptor 3; ACH; CEK2; JTK4; CD333; HSFGR3EX; FGFR-3; tyrosine kinase JTK4; hydroxyaryl-protein kinase; fibroblast growth factor receptor 3 variant 4 |
| <b>Entrez Gene ID</b> | <a href="#">14184</a>                                                                                                                                                                 |
| <b>UniProt ID</b>     | <a href="#">Q7TSI8</a>                                                                                                                                                                |