

Anti-FGFR3 Antibody (6L907)

Product Details

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| Ig Type: | hIgG1 |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 6L907 |
| Purification: | Affinity-chromatography |

Applications

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| Verified Activity: | Overlay Peak curve showing MCF7 cells stained with TMAH-00435 (red line) at 1:100. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10 ⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-human IgG (H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was human IgG (1ug/1*10 ⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed. |
| Application: | ELISA,FCM |
| Recommended | FCM:1:50-1:200. |

Properties

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| Stability & Storage: | Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | Recombinant Protein: Human FGFR3 Protein |
| Antigen Species: | Human |
| Gene ID: | 2261 |
| Uniprot ID: | P22607 |
| Synonyms: | FGFR3;ACH;CEK2;JTK4;FGF R3;HSFGFR3EX;CEK;FGFR2 α(IIIb);EC 2.7.10;CD333 |
| Biology Area: | Cancer, Cardiovascular, Signal transduction, Stem cells |

Research Background

Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation and apoptosis. Plays an essential role in the regulation of chondrocyte differentiation, proliferation and apoptosis, and is required for normal skeleton development. Regulates both osteogenesis and postnatal bone mineralization by osteoblasts. Promotes apoptosis in chondrocytes, but can also promote cancer cell proliferation. Required for normal development of the inner ear. Phosphorylates PLCG1, CBL and FRS2. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1, and mediates

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activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Plays a role in the regulation of vitamin D metabolism. Mutations that lead to constitutive kinase activation or impair normal FGFR3 maturation, internalization and degradation lead to aberrant signaling. Over-expressed or constitutively activated FGFR3 promotes activation of PTPN11/SHP2, STAT1, STAT5A and STAT5B. Secreted isoform 3 retains its capacity to bind FGF1 and FGF2 and hence may interfere with FGF signaling.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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