

## Mouse anti-Human FGFR4 Monoclonal Antibody | anti-FGFR4 antibody

FGFR4 Antibody

|                               |                      |                            |                                            |
|-------------------------------|----------------------|----------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA283486</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|----------------------|----------------------------|--------------------------------------------|

### PRODUCT SYNONYMS

FGFR4; Monoclonal Antibody; FGFR4 Antibody; Fibroblast growth factor receptor 4; FGFR-4; CD334; JTK2; TKF; anti-FGFR4 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                               |
| Reactivity                                      | Human                                                                                                                                                               |
| Clonality                                       | Monoclonal                                                                                                                                                          |
| Isotype                                         | IgG1 ?                                                                                                                                                              |
| Clone Number                                    | 53CT32.19.3                                                                                                                                                         |
| Specificity                                     | Purified recombinant FGFR4 fusion protein was used to produced this monoclonal antibody.                                                                            |
| Purity/Purification                             | Purified Mouse Monoclonal Antibody (Mab)                                                                                                                            |
| Form/Format                                     | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS. |
| Concentration                                   | Vial Concentration: 0.35 (varies by lot)                                                                                                                            |
| Sequence Length                                 | 802                                                                                                                                                                 |
| Applicable Applications for anti-FGFR4 antibody | ELISA, WB (Western Blot)                                                                                                                                            |
| Antigen Type                                    | Recombinant Protein                                                                                                                                                 |
| Antigen Source                                  | HUMAN                                                                                                                                                               |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.              |

### IMAGES



#### WB (Western Blot)

Western blot analysis of FGFR4 (arrow) using mouse monoclonal FGFR4 antibody. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the FGFR4 gene (Lane 2) (Origene Technologies)



#### WB (Western Blot)

Western blot analysis of anti-FGFR4 Monoclonal Antibody by FGFR4 recombinant protein(Fragment 42KD). FGFR4 protein (arrow) was detected using the purified Mab.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-FGFR4 antibody | The protein encoded by this gene is a member of the fibroblast growth factor receptor family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. 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 the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. The genomic organization of this gene, compared to members 1-3, encompasses 18 exons rather than 19 or 20. Although alternative splicing has been observed, there is no evidence that the C-terminal half of the IgIII domain of this protein varies between three alternate forms, as indicated for members 1-3. This particular family member preferentially binds acidic fibroblast growth factor and, although its specific function is unknown, it is overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis. |
| Product Categories/Family for anti-FGFR4 antibody   | Cancer; Cardiovascular; Cell Biology; Neuroscience; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| References                                          | Chenodeoxycholate in Females With Irritable Bowel Syndrome-Constipation: A Pharmacodynamic and Pharmacogenetic Analysis. Rao AS, et al. Gastroenterology, 2010 Aug 4. PMID 20691689.<br>Influence of the Fibroblast Growth Factor Receptor 4 Expression and the G388R Functional Polymorphism on Cushing's Disease Outcome. Brito LP, et al. J Clin Endocrinol Metab, 2010 Jul 21. PMID 20660043.<br>A large-scale candidate gene approach identifies SNPs in SOD2 and IL13 as predictive markers of response to preoperative chemoradiation in rectal cancer. Ho-Pun-Cheung A, et al. Pharmacogenomics J, 2010 Jul 20. PMID 20644561.<br>FGFR4 transmembrane domain polymorphism and cancer risk: A meta-analysis including 8555 subjects. Xu W, et al. Eur J Cancer, 2010 Jul 16. PMID 20638838.<br>Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------|
| NCBI GI #                        | 47524173                                                                                 |
| NCBI GeneID                      | 2264                                                                                     |
| NCBI Accession #                 | NP_002002.3; NP_075252.2; NP_998812.1                                                    |
| NCBI GenBank Nucleotide #        | NM_002011.4                                                                              |
| UniProt Accession #              | P22455; O43785; Q14309; Q71TW8; Q8TDA0; Q96KE5; G3JVM2; G3JVM5; G3JVM7; G3JVM9; AAB25788 |
| Molecular Weight                 | 87954                                                                                    |
| NCBI Official Full Name          | fibroblast growth factor receptor 4 isoform 1                                            |
| NCBI Official Synonym Full Names | fibroblast growth factor receptor 4                                                      |
| NCBI Official Symbol             | FGFR4                                                                                    |
| NCBI Official Synonym Symbols    | TKF; JTK2; CD334                                                                         |
| NCBI Protein Information         | fibroblast growth factor receptor 4                                                      |
| UniProt Protein Name             | Fibroblast growth factor receptor 4                                                      |
| UniProt Gene Name                | FGFR4                                                                                    |
| UniProt Synonym Gene Names       | JTK2; TKF; FGFR-4                                                                        |
| UniProt Entry Name               | FGFR4_HUMAN                                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.