BT LAB
Bioassay Technology Laboratory
Optimize Your Research

FGFR4 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA3023
Host	Mouse
Isotype	Mouse IgG1
Size	100μL, 50μL
Immunogen	Purified recombinant extracellular fragment of human FGFR4 fused with hIgGFc tag expressed in HEK293 cell line.
Mol wt	87.9kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	ICC
Concentration	N/A
Full name	N/A
Synonyms	TKF;JTK2;CD334

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

FGFR4: fibroblast growth factor receptor 4. Entrez Protein NP_002002. It 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.

Recommended Dilution

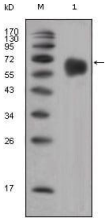
WB: 1:500 - 1:2000

ICC: 1:200 - 1:1000

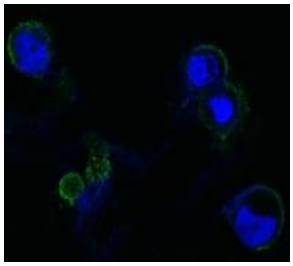
ELISA: 1:10000

Not yet tested in other applications.

Images



Western blot analysis using FGFR4 mouse mAb against extracellular domain of human FGFR4 (aa22-369).



Confocal Immunofluorescence analysis of methanol-fixed HEK293 cells trasfected with FGFR4-hIgGFc using FGFR4 mouse mAb(green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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