

Recombinant Mouse Fgfr2 Protein, Myc/DDK-tagged

Cat. No. Fgfr2-3002M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length fibroblast growth factor receptor 2 (cDNA clone MGC:102519 IMAGE:5349249), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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, migration and apoptosis, and in the regulation of embryonic development. Required for normal embryonic patterning, trophoblast function, limb bud development, lung morphogenesis, osteogenesis and skin development. Plays an essential role in the regulation of osteoblast differentiation, proliferation and apoptosis, and is required for normal skeleton development. Promotes cell proliferation in keratinocytes and immature osteoblasts, but promotes apoptosis in differentiated osteoblasts. Phosphorylates PLCG1, FRS2 and PAK4. 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 activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. FGFR2 signaling is down-regulated by ubiquitination, internalization and degradation. Mutations that lead to constitutive kinase activation or impair normal FGFR2 maturation, internalization

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and degradation lead to aberrant signaling. Over-expressed FGFR2 promotes activation of STAT1.

Molecular Mass	156.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Fgfr2 fibroblast growth factor receptor 2 [Mus musculus (house mouse)]
Official Symbol	Fgfr2
Synonyms	Fgfr2; fibroblast growth factor receptor 2; Bek; sv5; Fgfr; KGFR; Fgfr-; Fgfr7; Fgfr-2; Fgfr-7; Fgfr2b; KGFRTr; AU043015; AW556123; fibroblast growth factor receptor 2; keratinocyte growth factor receptor; EC 2.7.10.1
Gene ID	14183
mRNA Refseq	NM_010207
Protein Refseq	NP_034337

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UniProt ID

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