

Mouse Fgfr4 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP21465c**Specification**

Mouse Fgfr4 Blocking Peptide (Center) - Product InformationPrimary Accession [Q03142](#)**Mouse Fgfr4 Blocking Peptide (Center) - Additional Information****Gene ID** 14186**Other Names**

Fibroblast growth factor receptor 4, FGFR-4, Protein-tyrosine kinase receptor MPK-11, CD334, Fgfr4, Fgfr-4, Mpk-11

Target/Specificity

The synthetic peptide sequence is selected from aa 448-462 of HUMAN Fgfr4

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Fgfr4 Blocking Peptide (Center) - Protein Information**Name** Fgfr4**Synonyms** Fgfr-4, Mpk-11**Function**

Tyrosine-protein kinase that acts as a cell-surface receptor for fibroblast growth factors and plays a role in the regulation of cell proliferation, differentiation and migration, and in regulation of lipid metabolism, bile acid biosynthesis, glucose uptake, vitamin D metabolism and phosphate homeostasis. Required for normal down-regulation of the expression of CYP7A1, the rate-limiting enzyme in bile acid synthesis, in response to FGF19. Phosphorylates PLCG1 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 activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Promotes SRC-dependent phosphorylation of the matrix protease MMP14 and its lysosomal degradation. FGFR4 signaling is down-regulated by receptor internalization and degradation; MMP14 promotes internalization and degradation of FGFR4. Plays

a role in postnatal lung development. May be involved in the development of skeletal muscle cell lineages.

Cellular Location

Cell membrane; Single-pass type I membrane protein Endosome. Endoplasmic reticulum

Note=Internalized from the cell membrane to recycling endosomes, and from there back to the cell membrane.

Tissue Location

Isoform 1 and isoform 2 are expressed in lung and proliferating myoblasts and myotubes of primary myogenic cells (at protein level). Isoform 1 and isoform 2 are expressed in liver, muscle, spleen, heart, lung, kidney and in primary myogenic cells

Mouse Fgfr4 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

Mouse Fgfr4 Blocking Peptide (Center) - Images**Mouse Fgfr4 Blocking Peptide (Center) - Background**

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