

Phospho-FGFR2 Blocking Peptide | FGFR2 blocking peptide

Phospho-FGFR2 Peptide

CATALOG #
AAA76030

PRODUCT SYNONYMS

Phospho-FGFR2; Phospho-FGFR2 Peptide; Bacteria expressed kinase; BBDS; BEK; BEK fibroblast growth factor receptor; BFR1; CD 332; CEK 3; CFD1; Craniofacial dysostosis 1; Crouzon syndrome; ECT 1; FGFR 2; Fibroblast growth factor receptor 2; Hydroxyaryl protein kinase; Jackson Weiss syndrome; JWS; K SAM; Keratinocyte growth factor receptor 2; KGFR; KSAM; Pfeiffer syndrome; Protein tyrosine kinase receptor like 14; soluble FGFR4 variant 4; TK14; TK25; Tyrosylprotein kinase antibody; FGFR2 blocking peptide

PRODUCT SPECIFICATIONS

Form/Format	Antigenic Blocking Peptide
Sequence Length	709
Peptide Description	Synthetic peptide taken within amino acid region 750-800 on human Fibroblast Growth Factor receptor 2 protein.
Expression	Expressed in brain, kidney and testis. Very low or no expression in spleen, heart, and muscle. In 20- to 22-week old fetuses it is expressed at high level in kidney, lung, small intestine and brain, and to a lower degree in spleen, liver, and muscle.
Modification	Phosphorylated
Molecular Function	ATP-binding; Fibroblast growth factor binding; Heparin binding; Protein Tyrosine Kinase activity
Structure	Monomer. Homodimer after ligand binding. Interacts predominantly with FGF1 and FGF2, but can also interact with FGF3, FGF4, FGF6, FGF7, FGF8, FGF9, FGF10, FGF17, FGF18 and FGF22 (in vitro). Ligand specificity is determined by tissue-specific expression of isoforms, and differences in the third Ig-like domain are crucial for ligand specificity. Isoform 1 has high affinity for FGF1 and FGF2, but low affinity for FGF7. Isoform 3 has high affinity for FGF1 and FGF7, and has much higher affinity for FGF7 than isoform 1 (in vitro). Affinity for fibroblast growth factors (FGFs) is increased by heparan sulfate glycosaminoglycans that function as coreceptors. Likewise, KLB increases the affinity for FGF19 and FGF21. Interacts with PLCG1, GRB2 and PAK4.
Preparation and Storage	-20° degree C for long term storage

ADDITIONAL INFORMATION

Related Product Information for FGFR2 blocking peptide	Antigenic Blocking Peptide Phospho-Fibroblast Growth Factor Receptor 2 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 and degradation lead to aberrant signaling. Over-expressed FGFR2 promotes activation of STAT1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	767962153
NCBI GeneID	2263
NCBI Accession #	XP_011537812.1
NCBI GenBank Nucleotide #	XM_011539510.1
UniProt Accession #	P21802; P18443; Q01742; Q12922; Q14300; Q14301; Q14302; Q14303; Q14304; B4DFC2; E7EVR6; E9PCR0
NCBI Official Synonym Full Names	fibroblast growth factor receptor 2
NCBI Official Symbol	FGFR2
NCBI Official Synonym Symbols	BEK; JWS; BBDS; CEK3; CFD1; ECT1; KGFR; TK14; TK25; BFR-1; CD332; K-SAM
NCBI Protein Information	fibroblast growth factor receptor 2
UniProt Protein Name	Fibroblast growth factor receptor 2
UniProt Gene Name	FGFR2
UniProt Synonym Gene Names	BEK; KGFR; KSAM; FGFR-2; KGFR
UniProt Entry Name	FGFR2_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.

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Online datasheet: <https://stage.aaabiotech.com/blocking-peptide/phospho-fgfr2/76030>