

Phospho-FGFR(Y766) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3105a**Specification**

Phospho-FGFR(Y766) Antibody Blocking peptide - Product InformationPrimary Accession [P11362](#)**Phospho-FGFR(Y766) Antibody Blocking peptide - Additional Information****Gene ID** 2260**Other Names**

Fibroblast growth factor receptor 1, FGFR-1, Basic fibroblast growth factor receptor 1, BFGFR, bFGF-R-1, Fms-like tyrosine kinase 2, FLT-2, N-sam, Proto-oncogene c-Fgr, CD331, FGFR1, BFGFR, CEK, FGFR, FLG, FLT2, HBGFR

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP3105a](/product/products/AP3105a) was selected from the 761-770 region of human Phospho-FGFR-Y766. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

Phospho-FGFR(Y766) Antibody Blocking peptide - Protein Information**Name** FGFR1**Synonyms** BFGFR, CEK, FGFR, FLG, FLT2, HBGFR**Function**

Tyrosine-protein kinase that acts as a cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of embryonic development, cell proliferation, differentiation and migration. Required for normal mesoderm patterning and correct axial organization during embryonic development, normal skeletogenesis and normal development of the gonadotropin-releasing hormone (GnRH) neuronal system. Phosphorylates PLCG1, FRS2, GAB1 and SHB. 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 phosphorylation of SHC1, STAT1 and PTPN11/SHP2. In the nucleus, enhances RPS6KA1 and CREB1 activity and contributes to the regulation of transcription. FGFR1 signaling is down-regulated by IL17RD/SEF, and by FGFR1 ubiquitination, internalization and degradation.

Cellular Location

Cell membrane; Single-pass type I membrane protein. Nucleus. Cytoplasm, cytosol. Cytoplasmic vesicle. Note=After ligand binding, both receptor and ligand are rapidly internalized. Can translocate to the nucleus after internalization, or by translocation from the endoplasmic reticulum or Golgi apparatus to the cytosol, and from there to the nucleus

Tissue Location

Detected in astrocytoma, neuroblastoma and adrenal cortex cell lines. Some isoforms are detected in foreskin fibroblast cell lines, however isoform 17, isoform 18 and isoform 19 are not detected in these cells.

Phospho-FGFR(Y766) Antibody Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Phospho-FGFR(Y766) Antibody Blocking peptide - Images

Phospho-FGFR(Y766) Antibody Blocking peptide - Background

FGFR 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 consists 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. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene can lead to Pfeiffer syndrome and Jackson-Weiss syndrome.

Phospho-FGFR(Y766) Antibody Blocking peptide - References

Hu, Y., et al., J. Biol. Chem. 279(28):29325-29335 (2004).Ibrahimi, O.A., et al., Biochemistry 43(16):4724-4730 (2004).Sato, N., et al., J. Clin. Endocrinol. Metab. 89(3):1079-1088 (2004).Lundin, L., et al., Exp. Cell Res. 287(1):190-198 (2003).Jiao, J., et al., Arch. Biochem. Biophys. 410(2):187-200 (2003).