

**FGF2-T254 Antibody Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP5826a****Specification**

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**FGF2-T254 Antibody Blocking peptide - Product Information**

Primary Accession [P09038](#)  
Other Accession [NP\\_001997.5](#)

**FGF2-T254 Antibody Blocking peptide - Additional Information**

**Gene ID** 2247

**Other Names**

Fibroblast growth factor 2, FGF-2, Basic fibroblast growth factor, bFGF, Heparin-binding growth factor 2, HBGF-2, FGF2, FGFB

**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.

**FGF2-T254 Antibody Blocking peptide - Protein Information**

**Name** FGF2

**Synonyms** FGFB

**Function**

Acts as a ligand for FGFR1, FGFR2, FGFR3 and FGFR4 (PubMed:<a href="http://www.uniprot.org/citations/8663044" target="\_blank">8663044</a>). Also acts as an integrin ligand which is required for FGF2 signaling (PubMed:<a href="http://www.uniprot.org/citations/28302677" target="\_blank">28302677</a>). Binds to integrin ITGAV:ITGB3 (PubMed:<a href="http://www.uniprot.org/citations/28302677" target="\_blank">28302677</a>). Plays an important role in the regulation of cell survival, cell division, cell differentiation and cell migration (PubMed:<a href="http://www.uniprot.org/citations/8663044" target="\_blank">8663044</a>, PubMed:<a href="http://www.uniprot.org/citations/28302677" target="\_blank">28302677</a>). Functions as a potent mitogen in vitro (PubMed:<a href="http://www.uniprot.org/citations/1721615" target="\_blank">1721615</a>, PubMed:<a href="http://www.uniprot.org/citations/3964259" target="\_blank">3964259</a>, PubMed:<a href="http://www.uniprot.org/citations/3732516" target="\_blank">3732516</a>). Can induce angiogenesis (PubMed:<a href="http://www.uniprot.org/citations/23469107" target="\_blank">23469107</a>, PubMed:<a

href="http://www.uniprot.org/citations/28302677" target="\_blank">28302677</a>). Mediates phosphorylation of ERK1/2 and thereby promotes retinal lens fiber differentiation (PubMed:<a href="http://www.uniprot.org/citations/29501879" target="\_blank">29501879</a>).

**Cellular Location**

Secreted. Nucleus. Note=Exported from cells by an endoplasmic reticulum (ER)/Golgi-independent mechanism. Unconventional secretion of FGF2 occurs by direct translocation across the plasma membrane (PubMed:20230531). Binding of exogenous FGF2 to FGFR facilitates endocytosis followed by translocation of FGF2 across endosomal membrane into the cytosol (PubMed:22321063). Nuclear import from the cytosol requires the classical nuclear import machinery, involving proteins KPNA1 and KPNB1, as well as CEP57 (PubMed:22321063)

**Tissue Location**

Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non-cancerous liver tissue.

**FGF2-T254 Antibody Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**FGF2-T254 Antibody Blocking peptide - Images**