

**Product Name: FGFR-4 Rabbit Polyclonal Antibody**  
**Catalog #: APRab10950**

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## Summary

<b>Production Name</b>	FGFR-4 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Rat,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	FGFR4
<b>Alternative Names</b>	FGFR4; JTK2; TKF; Fibroblast growth factor receptor 4; FGFR-4; CD334
<b>Gene ID</b>	2264.0
<b>SwissProt ID</b>	P22455. The antiserum was produced against synthesized peptide derived from the Internal region of human FGFR4. AA range:91-140

## Application

<b>Dilution Ratio</b>	WB 1:500-1:2000, ELISA 1:10000. Not yet tested in other applications.
<b>Molecular Weight</b>	85kDa

## Background

The protein encoded by this gene is a member of the fibroblast growth factor receptor family, where amino acid sequence

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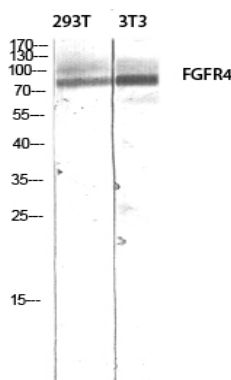


is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic 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. The genomic organization of this gene, compared to members 1-3, encompasses 18 exons rather than 19 or 20. Although alternative splicing has been observed, there is no evidence that the C-terminal half of the IgI catalytic activity:  $\text{ATP} + \text{a [protein]-L-tyrosine} = \text{ADP} + \text{a [protein]-L-tyrosine phosphate}$ .  
function: Receptor for acidic fibroblast growth factor. Does not bind to basic fibroblast growth factor. Binds FGF19, PTM: Glycosylated (By similarity). Phosphorylated on tyrosine residue (By similarity). Phosphorylation requires the presence of a functional (phosphorylated) FGFR1 and not necessarily by means of FGFR heterodimerization.  
similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family.  
similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family. Fibroblast growth factor receptor subfamily.  
similarity: Contains 1 protein kinase domain.  
similarity: Contains 3 Ig-like C2-type (immunoglobulin-like) domains.  
subcellular location: Isoform 2 may be secreted.  
subunit: Interacts with KLB.  
tissue specificity: Expressed in gastrointestinal epithelial cells, pancreas, and gastric and pancreatic cancer cell lines.

## Research Area

MAPK\_ERK\_Growth; MAPK\_G\_Protein; Endocytosis; Regulates Actin and Cytoskeleton;

## Image Data



Western blot analysis of 293T 3T3 lysis using FGFR4 antibody. Antibody was diluted at 1:500. Secondary antibody was diluted at 1:20000

## Note

For research use only.