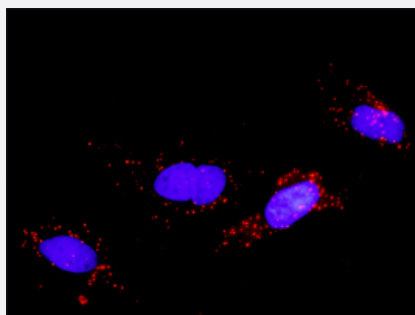


FGFR2 & FGF5 Protein Protein Interaction Antibody Pair

Catalog # DI0353

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between FGFR2 and FGF5. HeLa cells were stained with anti-FGFR2 rabbit purified polyclonal antibody 1:1200 and anti-FGF5 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description

This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the FGFR2 protein, and the other against the FGF5 protein for use in [in situ Proximity Ligation Assay](#). [See Publication Reference below](#).

Reactivity

Human

Quality Control Testing

Protein protein interaction immunofluorescence result.
Representative image of Proximity Ligation Assay of protein-protein interactions between FGFR2 and FGF5. HeLa cells were stained with anti-FGFR2 rabbit purified polyclonal antibody 1:1200 and anti-FGF5 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Supplied Product

Antibody pair set content:
1. FGFR2 rabbit purified polyclonal antibody (100 ug)
2. FGF5 mouse monoclonal antibody (40 ug)
*Reagents are sufficient for at least 30-50 assays using recommended protocols.

Storage Instruction

Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze-thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — FGF5

Entrez GeneID	2250
Gene Name	FGF5
Gene Alias	HBGF-5, Smag-82
Gene Description	fibroblast growth factor 5
Omim ID	165190
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This gene was identified as an oncogene, which confers transforming potential when transfected into mammalian cells. Targeted disruption of the homolog of this gene in mouse resulted in the phenotype of abnormally long hair, which suggested a function as an inhibitor of hair elongation. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]
Other Designations	heparin-binding growth factor 5

Gene Info — FGFR2

Entrez GeneID	2263
Gene Name	FGFR2
Gene Alias	BEK, BFR-1, CD332, CEK3, CFD1, ECT1, FLJ98662, JWS, K-SAM, KGFR, TK14, TK25
Gene Description	fibroblast growth factor receptor 2
Omim ID	101200 101400 101600 123150 123500 123790 137215 149730 176943 207410
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene 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 is a high-affinity receptor for acidic, basic and/or keratinocyte growth factor, depending on the isoform. Mutations in this gene are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis. Multiple alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq]

Other Designations

BEK fibroblast growth factor receptor|FGF receptor|OTTHUMP00000020621|OTTHUMP00000020629|bacteria-expressed kinase|hydroxyaryl-protein kinase|keratinocyte growth factor receptor|protein tyrosine kinase, receptor like 14|soluble FGFR4 variant 4

Pathway

- [Endocytosis](#)
- [MAPK signaling pathway](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Acrocephalosyndactylia](#)
- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Birth Weight](#)

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cleft Palate](#)
- [Craniofacial Dysostosis](#)
- [Craniosynostoses](#)
- [Cystadenocarcinoma](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Disease Susceptibility](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Hypospadias](#)
- [Lymphatic Metastasis](#)
- [Malignant melanoma](#)

- [Melanoma](#)
- [Metabolic Syndrome X](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Schizophrenia](#)
- [Skin Neoplasms](#)
- [Sleep Apnea](#)
- [Tobacco Use Disorder](#)