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CRK & PIK3R1 Protein Protein Interaction Antibody Pair

Catalog # : DI0444

規格 : [1 Set]

List All

Specification

Product Description: This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the CRK protein, and the other against the PIK3R1 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

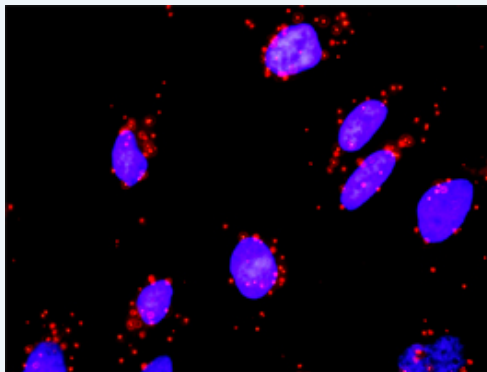


Application Image

In situ Proximity Ligation Assay (Cell)

Reactivity: Human

Quality Control Testing: Protein protein interaction immunofluorescence result.



Representative image of Proximity Ligation Assay of protein-protein interactions between CRK and PIK3R1. HeLa cells were stained with anti-CRK rabbit purified polyclonal antibody 1:1200 and anti-PIK3R1 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. CRK rabbit purified polyclonal antibody (20 ug)
 2. PIK3R1 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.

MSDS:  [Download](#)

Publication Reference

1. [An analysis of protein-protein interactions in cross-talk pathways reveals CRKL as a novel prognostic marker in hepatocellular carcinoma.](#)
Liu CH, Chen TC, Chau GY, Jan YH, Chen CH, Hsu CN, Lin KT, Juang YL, Lu PJ, Cheng HC, Chen MH, Chang CF, Ting YS, Kao CY, Hsiao M, Huang CY. Mol Cell Proteomics. 2013 Feb 8. [Epub ahead of print]

Applications

In situ Proximity Ligation Assay (Cell)

[CRK](#) [PIK3R1](#)

Gene Information

Entrez GeneID: [1398](#)

Gene Name: CRK

Gene Alias: CRKII

Gene Description: v-crk sarcoma virus CT10 oncogene homolog (avian)

Omim ID: [164762](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes a member of an adapter protein family that binds to several tyrosine-phosphorylated proteins. The product of this gene has several SH2 and SH3 domains (src-homology domains) and is involved in several signaling pathways, recruiting cytoplasmic proteins in the vicinity of tyrosine kinase through SH2-phosphotyrosine interaction. The N-terminal SH2 domain of this protein functions as a positive regulator of transformation whereas the C-terminal SH3 domain functions as a negative regulator of transformation. Two alternative transcripts encoding different isoforms with distinct biological activity have been described. [provided by RefSeq]

Other Designations: avian sarcoma virus CT10 (v-crk) oncogene homolog,v-crk avian sarcoma virus CT10 oncogene homolog,v-crk sarcoma virus CT10 oncogene homolog

Gene Information

Entrez GeneID: [5295](#)

Gene Name: PIK3R1

Gene Alias: GRB1,p85,p85-ALPHA

Gene Description: phosphoinositide-3-kinase, regulatory subunit 1 (alpha)

Omim ID: [171833](#)

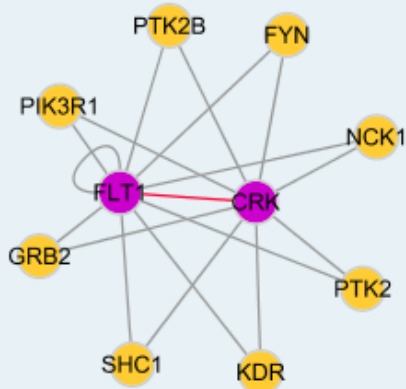
Gene Ontology: [Hyperlink](#)

Gene Summary: Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85, 55, or 50

kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. Alternative splicing of this gene results in three transcript variants encoding different isoforms. [provided by RefSeq

Other Designations: phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha), phosphatidylinositol 3-kinase, regulatory, 1, phosphatidylinositol 3-kinase-associated p-85 alpha, phosphoinositide-3-kinase, regulatory subunit 1 (p85 alpha), phosphoinositide-3-ki

Interactome 1



Interactome 2

