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PIK3R5 & PIK3CG Protein Protein Interaction Antibody Pair

Catalog # : DI0570

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 PIK3R5 protein, and the other against the PIK3CG protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

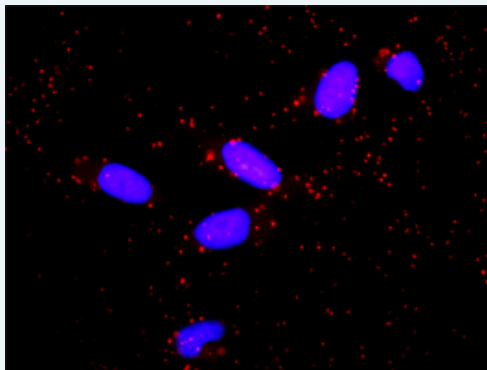
Application Image

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 PIK3R5 and PIK3CG. HeLa cells were stained with anti-PIK3R5 rabbit purified polyclonal antibody 1:1200 and anti-PIK3CG 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. PIK3R5 rabbit purified polyclonal antibody (20 ug)
 2. PIK3CG 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)

[PIK3CG](#) [PIK3R5](#)

Gene Information

Entrez GeneID: [23533](#)

Gene Name: PIK3R5

Gene Alias: F730038I15Rik,FOAP-2,P101-PI3K,p101

Gene Description: phosphoinositide-3-kinase, regulatory subunit 5

Omim ID: [611317](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: Receptor-regulated class I phosphoinositide 3-kinases (PI3Ks) phosphorylate the membrane lipid phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) to PtdIns(3,4,5)P3, which in turn recruits and activates cytosolic effectors involved in proliferation, survival, or chemotaxis. PIK3R5 is a PI3K regulatory subunit (Brock et al., 2003 [PubMed 12507995]).[supplied by OMIM]

Other Designations: phosphoinositide-3-kinase, regulatory subunit 5, p101,phosphoinositide-3-kinase, regulatory subunit, polypeptide p101

Gene Information

Entrez GeneID: [5294](#)

Gene Name: PIK3CG

Gene Alias: PI3CG,PI3K,PI3Kgamma,PIK3

Gene Description: phosphoinositide-3-kinase, catalytic, gamma polypeptide

Omim ID: [601232](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes a protein that belongs to the pi3/pi4-kinase family of proteins. The gene product is an enzyme that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring. It is an important modulator of extracellular signals, including those elicited by E-cadherin-mediated cell-cell adhesion, which plays an important role in maintenance of the structural and functional integrity of epithelia. In addition to its role in promoting assembly of adherens junctions, the protein is thought to play a pivotal role in the regulation of cytotoxicity in

NK cells. The gene is located in a commonly deleted segment of chromosome 7 previously identified in myeloid leukemias. [provided by RefSeq]

Other Designations: 1-phosphatidylinositol 3-kinase,PI3-kinase,PTDINS-3-kinase,p110-gamma,phosphatidylinositol 3 kinase gamma, p110 gamma,phosphatidylinositol 3-kinase catalytic 110-kD gamma,phosphatidylinositol 3-kinase, catalytic, gamma polypeptide,phosphoinositide-3-kinas

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