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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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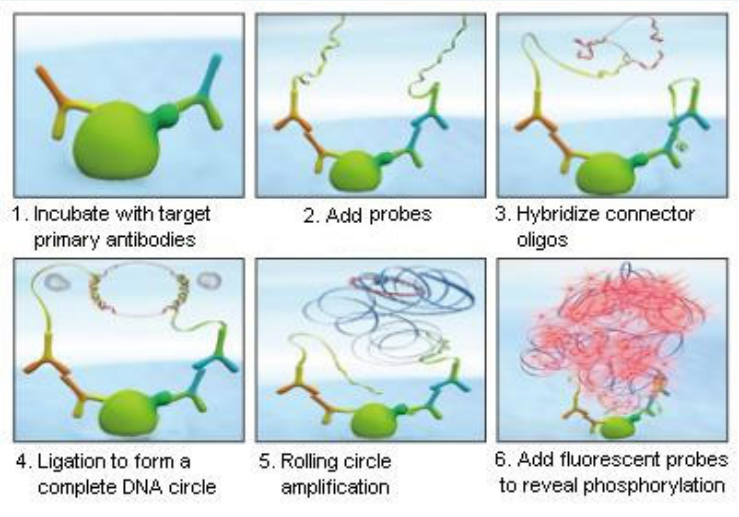
PTK2(phospho Y397) & PTK2 Protein Phosphorylation Antibody Pair

Catalog # : DP0232 **規格 :** [1 Set]

List All

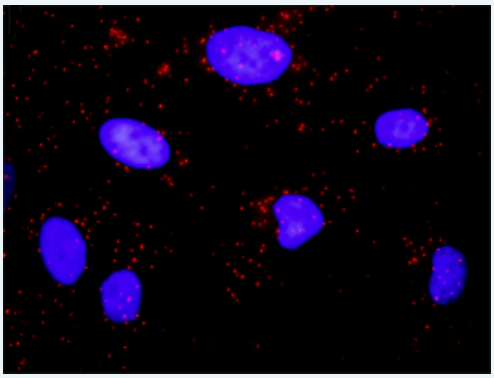
Specification

Product Description: This protein phosphorylation antibody pair set comes with two antibodies, one against the PTK2 protein, and the other against the specific Y397 phosphorylated site of PTK2 for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



Reactivity: Human

Quality Control Testing: Dual recognition immunofluorescence result.



Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. 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. Phospho-PTK2 Y397 rabbit polyclonal antibody (20 ul)
In PBS (without Mg2+ and Ca2+), 150 mM NaCl, pH 7.4 (0.02% sodium azide, 50% glycerol)
2. PTK2 mouse monoclonal antibody (40 ug)
In 1x PBS, pH 7.2
*Reagents are sufficient for at least 30-50 assays using recommended protocols.

Application Image

In situ Proximity Ligation Assay (Cell)

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.

Publication Reference

1. In situ detection of phosphorylated platelet-derived growth factor receptor beta using a generalized proximity ligation method.
   Jarvius M, Paulsson J, Weibrecht I, Leuchowius KJ, Andersson AC, Wahlby C, Gullberg M,Botling J, Sjoblom T, Markova B, Ostman A, Landegren U, Soderberg O.
   Mol Cell Proteomics. 2007 Sep;6(9):1500-9. Epub 2007 Jun 12.
2. Direct observation of individual endogenous protein complexes in situ by proximity ligation.
   Soderberg O, Gullberg M, Jarvius M , Ridderstrale K, Leuchowius KJ, Jarvius J, Wester K, Hydbring P, Bahram F, Larsson LG, and Landegren U.
   Nat Methods. 2006 Dec;3(12):995-1000. Epub 2006 Oct 29.
3. Cytokine detection by antibody-based proximity ligation.
   Gullberg M, Gustafsdottir SM, Schallmeiner E, Jarvius J, Bjarnegard M, Betsholtz C, Landegren U, and Fredriksson S.
   Proc Natl Acad Sci U S A. 2004 Jun 1;101(22):8420-4. Epub 2004 May 21.
4. Protein detection using proximity-dependent DNA ligation assays.
   Fredriksson S, GullbergM, Jarvius J, Olsson C, Pietras K, Gustafsdottir SM, Ostman A, and Landegren U.
   Nat Biotechnol. 2002 May;20(5):473-7.
5. Highly specific detection of phosphorylated proteins by Duolink
   Mats Gullberg and Ann-Catrin Andersson
   Nature Methods 6. 2009

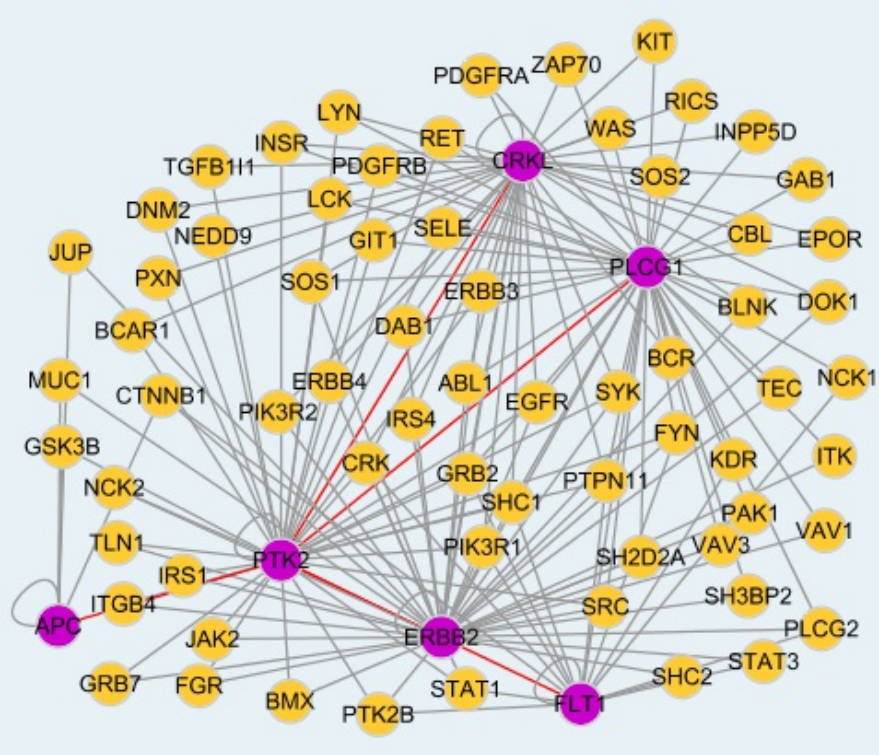
Applications

***In situ* Proximity Ligation Assay (Cell)**

Gene Information

Entrez GeneID:	5747
Gene Name:	PTK2
Gene Alias:	FADK,FAK,FAK1,pp125FAK
Gene Description:	PTK2 protein tyrosine kinase 2
Omim ID:	600758
Gene Ontology:	Hyperlink
Gene Summary:	This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. At least four transcript variants encoding four different isoforms have been found for this gene, but the full-length natures of only two of them have been determined. [provided by RefSeq
Other Designations:	focal adhesion kinase 1

Interactome



Gene Pathway

Axon guidance Chemokine signaling pathway ErbB signaling pathway Focal adhesion Leukocyte transendothelial migration Pathways in cancer Regulation of actin cytoskeleton Small cell lung cancer VEGF signaling pathway

Related Disease

Autistic Disorder Genetic Predisposition to Disease HIV Infections Leukemia, chronic myeloid Leukemia, Myelogenous, Chronic, BCR-ABL Positive Mental Retardation Neovascularization, Pathologic Psychotic Disorders Schizophrenia