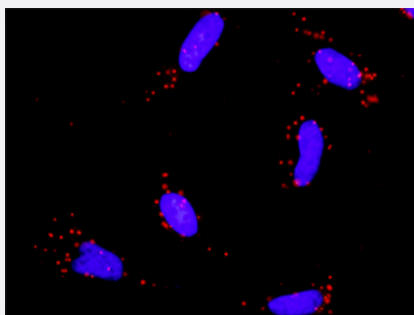


PTK2 & PIAS1 Protein Protein Interaction Antibody Pair

Catalog # DI0346

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PTK2 and PIAS1. HeLa cells were stained with anti-PTK2 rabbit purified polyclonal antibody 1:1200 and anti-PIAS1 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 PTK2 protein, and the other against the PIAS1 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 PTK2 and PIAS1. HeLa cells were stained with anti-PTK2 rabbit purified polyclonal antibody 1:1200 and anti-PIAS1 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. PTK2 rabbit purified polyclonal antibody (100 ug)
2. PIAS1 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 — PTK2

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

Gene Info — PIAS1

Entrez GeneID	8554
Gene Name	PIAS1
Gene Alias	DDXBP1, GBP, GU/RH-II, MGC141878, MGC141879, ZMIZ3
Gene Description	protein inhibitor of activated STAT, 1
Omim ID	603566
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the mammalian PIAS [protein inhibitor of activated STAT-1 (signal transducer and activator of transcription-1)] family. This member contains a putative zinc-binding motif and a highly acidic region. It inhibits STAT1-mediated gene activation and the DNA binding activity, binds to Gu protein/RNA helicase II/DEAD box polypeptide 21, and interacts with androgen receptor (AR). It functions in testis as a nuclear receptor transcriptional coregulator and may have a role in AR initiation and maintenance of spermatogenesis. [provided by RefSeq]

Other Designations

AR interacting protein|DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1|protein inhibitor of activated STAT-1|zinc finger, MIZ-type containing 3

Pathway

- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Jak-STAT signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Small cell lung cancer](#)
- [Small cell lung cancer](#)
- [Ubiquitin mediated proteolysis](#)
- [VEGF signaling pathway](#)

Disease

- [Autistic Disorder](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)

- [Leukemia](#)
- [Mental Retardation](#)
- [Multiple Sclerosis](#)
- [Neovascularization](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)