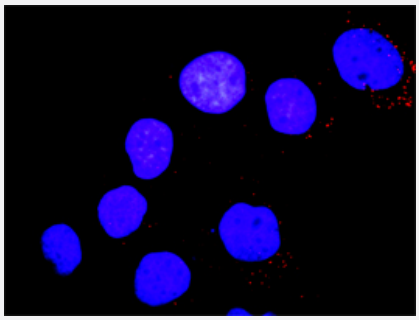
PTK2B & YES1 Protein Protein Interaction Antibody Pair

Catalog # DI0388 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PTK2B and YES1. Huh7 cells were stained with anti-PTK2B rabbit purified polyclonal antibody 1:1200 and anti-YES1 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 PTK2B protein, and the other against the YES1 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 PTK2B and YES1. Huh7 cells were stained with anti-PTK2B rabbit purified polyclonal antibody 1:1200 and anti-YES1 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. PTK2B rabbit purified polyclonal antibody (100 ug) 2. YES1 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 — PTK2B

Entrez GeneID	2185
Gene Name	PTK2B
Gene Alias	CADTK, CAKB, FADK2, FAK2, FRNK, PKB, PTK, PYK2, RAFTK
Gene Description	PTK2B protein tyrosine kinase 2 beta
Omim ID	601212
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cytoplasmic protein tyrosine kinase which is involved in calcium-induced reg ulation of ion channels and activation of the map kinase signaling pathway. The encoded protein may represent an important signaling intermediate between neuropeptide-activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal act ivity. The encoded protein undergoes rapid tyrosine phosphorylation and activation in response to increases in the intracellular calcium concentration, nicotinic acetylcholine receptor activation, me mbrane depolarization, or protein kinase C activation. This protein has been shown to bind CRK-associated substrate, nephrocystin, GTPase regulator associated with FAK, and the SH2 domain of GRB2. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but l acks significant sequence similarity to kinases from other subfamilies. Four transcript variants en coding two different isoforms have been found for this gene. [provided by RefSeq
Other Designations	CAK beta|OTTHUMP00000128275|OTTHUMP00000162913|calcium-dependent tyrosine kinase |cell adhesion kinase beta|focal adhesion kinase 2|proline-rich tyrosine kinase 2|protein kinase B| protein tyrosine kinase 2 beta|related adhesion focal tyrosine kinase

Gene Info — YES1

Entrez GeneID	7525
Gene Name	YES1
Gene Alias	HsT441, P61-YES, Yes, c-yes
Gene Description	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1
Omim ID	164880
Gene Ontology	Hyperlink

Gene Summary	This gene is the cellular homolog of the Yamaguchi sarcoma virus oncogene. The encoded protei n has tyrosine kinase activity and belongs to the src family of proteins. This gene lies in close prox imity to thymidylate synthase gene on chromosome 18, and a corresponding pseudogene has be en found on chromosome 22. [provided by RefSeq
Other Designations	OTTHUMP00000162194|Yamaguchi sarcoma oncogene|cellular yes-1 protein|proto-oncogene ty rosine-protein kinase YES|viral oncogene yes-1 homolog 1

Pathway

- Adherens junction
- Calcium signaling pathway
- Chemokine signaling pathway
- GnRH signaling pathway
- Leukocyte transendothelial migration
- Natural killer cell mediated cytotoxicity
- Tight junction

Disease

- Cardiovascular Diseases
- Celiac Disease
- Cell Transformation
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- HIV Infections
- HIV Infections
- Hypertension
- Insulin Resistance

- Kidney Failure
- Melanoma
- Skin Neoplasms
- Tobacco Use Disorder