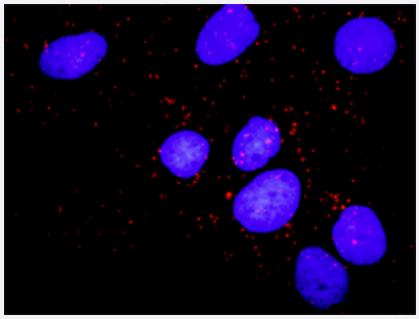
CCNB1 & PKMYT1 Protein Protein Interaction Antibody Pair

Catalog # DI0004 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CCNB1 and PKMYT1. Huh7 cells were stained with anti-CCNB1 rabbit purified polyclonal antibody 1:1200 and anti-PKMYT1 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 CCNB1 protein, and the other against the PKMYT1 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 CCNB1 and PKMYT1. Huh7 cells were stained with anti-CCNB1 rabbit purified polyclonal antibody 1:1200 and anti-PKMYT1 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. CCNB1 rabbit purified polyclonal antibody (100 ug) 2. PKMYT1 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 — CCNB1

Entrez GeneID	891
Gene Name	CCNB1
Gene Alias	CCNB
Gene Description	cyclin B1
Omim ID	123836
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a regulatory protein involved in mitosis. The gene product co mplexes with p34(cdc2) to form the maturation-promoting factor (MPF). Two alternative transcript s have been found, a constitutively expressed transcript and a cell cycle-regulated transcript, that i s expressed predominantly during G2/M phase. The different transcripts result from the use of alte rnate transcription initiation sites. [provided by RefSeq
Other Designations	G2/mitotic-specific cyclin B1

Gene Info — PKMYT1

Entrez GeneID	9088
Gene Name	PKMYT1
Gene Alias	DKFZp547K1610, FLJ20093, MYT1
Gene Description	protein kinase, membrane associated tyrosine/threonine 1
Omim ID	602474
Gene Ontology	Hyperlink

Gene Summary	The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase preferentially phosphorylates and inactivates cell division cycle 2 protein (CDC2), and thus negatively regulates cell cycle G2/M transition. This kinase is associated with the membrane throu ghout the cell cycle. Its activity is highly regulated during the cell cycle. Protein kinases AKT1/PKB and PLK (Polo-like kinase) have been shown to phosphorylate and regulate the activity of this kin ase. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provi ded by RefSeq
Other Designations	membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase|protein kinase Myt1

Pathway

- Cell cycle
- Cell cycle
- p53 signaling pathway

Disease

- Adenocarcinoma
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Ovarian Neoplasms