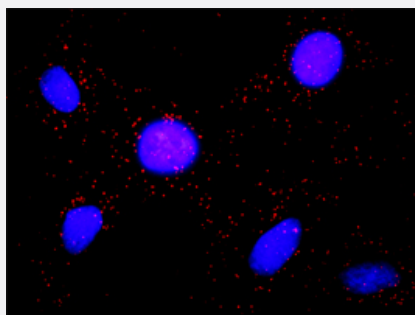


BUB1 & APC Protein Protein Interaction Antibody Pair

Catalog # DI0053

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between BUB1 and APC. HeLa cells were stained with anti-BUB1 rabbit purified polyclonal antibody 1:1200 and anti-APC 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 BUB1 protein, and the other against the APC 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 BUB1 and APC. HeLa cells were stained with anti-BUB1 rabbit purified polyclonal antibody 1:1200 and anti-APC 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. BUB1 rabbit purified polyclonal antibody (100 ug)
2. APC 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 — APC

Entrez GeneID	324
Gene Name	APC
Gene Alias	BTPS2, DP2, DP2.5, DP3, GS
Gene Description	adenomatous polyposis coli
Omim ID	135290 137215 155255 175100 276300
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a tumor suppressor protein that acts as an antagonist of the Wnt signaling pathway. It is also involved in other processes including cell migration and adhesion, transcriptional activation, and apoptosis. Defects in this gene cause familial adenomatous polyposis (FAP), an autosomal dominant pre-malignant disease that usually progresses to malignancy. Disease-associated mutations tend to be clustered in a small region designated the mutation cluster region (MCR) and result in a truncated protein product. [provided by RefSeq]
Other Designations	adenomatosis polyposis coli tumor suppressor

Gene Info — BUB1

Entrez GeneID	699
Gene Name	BUB1
Gene Alias	BUB1A, BUB1L, hBUB1
Gene Description	budding uninhibited by benzimidazoles 1 homolog (yeast)
Omim ID	602452
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a kinase involved in spindle checkpoint function. The kinase functions in part by phosphorylating a member of the mitotic checkpoint complex and activating the spindle checkpoint. Mutations in this gene have been associated with aneuploidy and several forms of cancer. [provided by RefSeq]
Other Designations	BUB1 budding uninhibited by benzimidazoles 1 homolog budding uninhibited by benzimidazoles 1 mitotic spindle checkpoint kinase putative serine/threonine-protein kinase

Pathway

- [Basal cell carcinoma](#)
- [Cell cycle](#)
- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Wnt signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)
- [Adenomatous Polyps](#)
- [Alcoholism](#)
- [Autistic Disorder](#)
- [Barrett Esophagus](#)
- [Bone Neoplasms](#)
- [Breast cancer](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)

- [Cell Transformation](#)
- [Chromosomal Instability](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Colitis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Conduct Disorder](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Duodenal Neoplasms](#)
- [Edema](#)
- [Ependymoma](#)
- [Epidermal Cyst](#)
- [Esophageal Neoplasms](#)
- [Fibromatosis](#)
- [Gardner Syndrome](#)
- [Gastroesophageal Reflux](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Helicobacter Infections](#)
- [Hyperplasia](#)
- [Inflammatory Bowel Diseases](#)

- [Intestinal Polyps](#)
- [Jejunal Neoplasms](#)
- [Kidney Failure](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Metaplasia](#)
- [Microsatellite Instability](#)
- [Multiple Organ Failure](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Osteoma](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Precancerous Conditions](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Pulmonary Disease](#)
- [Rectal Neoplasms](#)
- [Stomach Neoplasms](#)
- [Syndrome](#)

- [Systemic Inflammatory Response Syndrome](#)
- [Tay-Sachs disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)