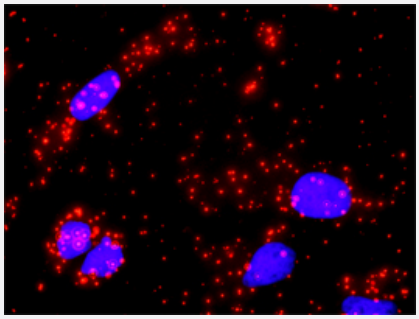
CASP3 & CASP9 Protein Protein Interaction Antibody Pair

Catalog # DI0333 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CASP3 and CASP9. HeLa cells were stained with anti-CASP3 rabbit purified polyclonal antibody 1:1200 and anti-CASP9 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 CASP3 protein, and the other against the CASP9 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 CASP3 and CASP9. HeLa cells were stained with anti-CASP3 rabbit purified polyclonal antibody 1:1200 and anti-CASP9 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. CASP3 rabbit purified polyclonal antibody (100 ug) 2. CASP9 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 — CASP3

Entrez GeneID	836
Gene Name	CASP3
Gene Alias	CPP32, CPP32B, SCA-1
Gene Description	caspase 3, apoptosis-related cysteine peptidase
Omim ID	600636
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein. [provided by RefSeq
Other Designations	OTTHUMP00000165054|PARP cleavage protease|SREBP cleavage activity 1|Yama|apopain|caspase 3|caspase 3, apoptosis-related cysteine protease|cysteine protease CPP32|procaspase3

Gene Info — CASP9

Entrez GeneID	842
Gene Name	CASP9
Gene Alias	APAF-3, APAF3, CASPASE-9c, ICE-LAP6, MCH6
Gene Description	caspase 9, apoptosis-related cysteine peptidase
Omim ID	602234
Gene Ontology	Hyperlink

Gene Summary	This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein is processed by caspase APAF1; this step is thought to be one of the earliest in the caspase activation cascade. Alternative splicing results in two transcript variants which encode different isoforms. [provided by RefSeq
Other Designations	ICE-like apoptotic protease 6|OTTHUMP00000002322|OTTHUMP00000002323|OTTHUMP00000044594|apoptotic protease MCH-6|apoptotic protease activating factor 3|caspase 9|caspase 9, apoptosis-related cysteine protease

Pathway

- Amyotrophic lateral sclerosis (ALS)
- Amyotrophic lateral sclerosis (ALS)
- Apoptosis
- Apoptosis
- Colorectal cancer
- Colorectal cancer
- Endometrial cancer
- Epithelial cell signaling in Helicobacter pylori infection
- MAPK signaling pathway
- Natural killer cell mediated cytotoxicity
- Non-small cell lung cancer
- p53 signaling pathway
- p53 signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer

- VEGF signaling pathway

Disease

- Adenocarcinoma
- Adenocarcinoma
- Attention Deficit Disorder with Hyperactivity
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Autistic Disorder
- Carcinoma
- Carcinoma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Clubfoot
- Clubfoot
- Colorectal Neoplasms
- Colorectal Neoplasms
- Crohn Disease
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetic Nephropathies
- Disease Progression
- Disease Progression
- Edema
- Edema
- Endometrial Neoplasms

- Esophageal Neoplasms
- Esophageal Neoplasms
- Gastrointestinal Stromal Tumors
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hematologic Diseases
- Hematologic Diseases
- Hepatitis
- Hodgkin Disease
- Hodgkin Disease
- Intestinal Fistula
- Kidney Failure
- Kidney Failure
- Leukemia
- Leukemia
- Lung carcinoma
- Lung Neoplasms
- Lung Neoplasms
- Lymphatic Metastasis
- Lymphatic Metastasis
- Lymphoma
- Lymphoma
- Lymphoproliferative Disorders

- Lymphoproliferative Disorders
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Myeloma
- Multiple Sclerosis
- Multiple Sclerosis
- NARP
- NARP
- Neoplasm Metastasis
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Neoplasms
- Neovascularization
- Neovascularization
- Occupational Diseases
- Occupational Diseases
- Pancreatic Neoplasms
- Prostatic Neoplasms
- Prostatic Neoplasms
- Pulmonary Disease
- Pulmonary Disease
- Small Cell Lung Carcinoma
- Small Cell Lung Carcinoma
- Stomach Neoplasms
- Stomach Neoplasms

- Substance-Related Disorders
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Waldenstrom Macroglobulinemia
- Werner syndrome
- Werner syndrome