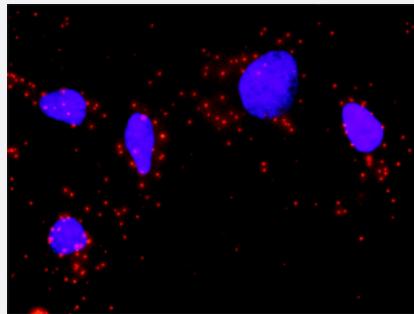


# XIAP & CASP3 Protein Protein Interaction Antibody Pair

Catalog # DI0441 Size 1 Set

## Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between XIAP and CASP3. HeLa cells were stained with anti-XIAP rabbit purified polyclonal antibody 1:1200 and anti-CASP3 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

<b>Product Description</b>	This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the XIAP protein, and the other against the CASP3 protein for use in <a href="#">in situ Proximity Ligation Assay</a> . See Publication Reference below.
<b>Reactivity</b>	Human
<b>Quality Control Testing</b>	Protein protein interaction immunofluorescence result. Representative image of Proximity Ligation Assay of protein-protein interactions between XIAP and CASP3. HeLa cells were stained with anti-XIAP rabbit purified polyclonal antibody 1:1200 and anti-CASP3 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.
<b>Supplied Product</b>	Antibody pair set content: 1. XIAP rabbit purified polyclonal antibody (100 ug) 2. CASP3 mouse monoclonal antibody (40 ug) *Reagents are sufficient for at least 30-50 assays using recommended protocols.
<b>Storage Instruction</b>	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 — XIAP

Entrez GenelD	<a href="#">331</a>
Gene Name	XIAP
Gene Alias	API3, BIRC4, ILP1, MIHA, XLP2
Gene Description	X-linked inhibitor of apoptosis
Omim ID	<a href="#">300079 300635</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	The protein encoded by this gene is a member of a family of proteins which inhibit apoptosis through binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2. This protein inhibits apoptosis induced by menadione, a potent inducer of free radicals, and ICE. It also inhibits at least two members of the caspase family of cell-death proteases, caspase-3 and caspase-7. [provided by RefSeq]
Other Designations	OTTHUMP00000023975 OTTHUMP00000196392 apoptosis inhibitor 3 baculoviral IAP repeat-containing 4 baculoviral IAP repeat-containing protein 4

## Gene Info — CASP3

Entrez GenelD	<a href="#">836</a>
Gene Name	CASP3
Gene Alias	CPP32, CPP32B, SCA-1
Gene Description	caspase 3, apoptosis-related cysteine peptidase
Omim ID	<a href="#">600636</a>
Gene Ontology	<a href="#">Hyperlink</a>

**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

**Pathway**

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Apoptosis](#)
- [Apoptosis](#)
- [Colorectal cancer](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Focal adhesion](#)
- [MAPK signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [p53 signaling pathway](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Small cell lung cancer](#)
- [Ubiquitin mediated proteolysis](#)

**Disease**

- [Adenocarcinoma](#)
- [Arthritis](#)

- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Clubfoot](#)
- [Colorectal Neoplasms](#)
- [Common Variable Immunodeficiency](#)
- [Cryopyrin-associated Periodic Syndromes](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Edema](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Familial Mediterranean Fever](#)
- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Head and Neck Neoplasms](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Immunologic Deficiency Syndromes](#)

- [Kidney Failure](#)
- [Leukemia](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Lymphoproliferative Disorders](#)
- [Mevalonate Kinase Deficiency](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [NARP](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Occupational Diseases](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Severe Combined Immunodeficiency](#)
- [Small Cell Lung Carcinoma](#)
- [Stomach Neoplasms](#)
- [Urinary Bladder Neoplasms](#)

- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)