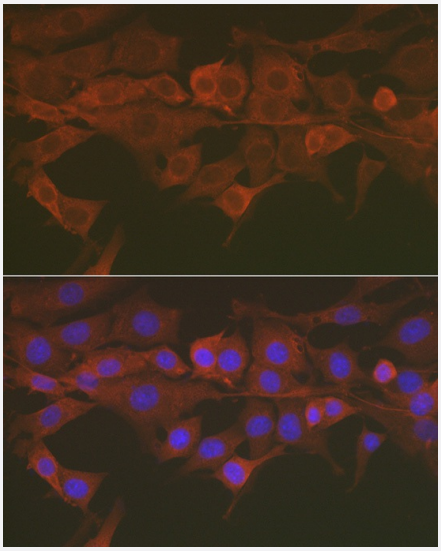
RecomAb™ Sm Size

Active Caspase-3 recombinant monoclonal antibody

Catalog # RAB09065 Size 50 uL

Applications



Immunofluorescence

Immunofluorescence analysis of NIH/3T3 cells. Blue: DAPI for nuclear staining.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against recombinant Active Caspase-3.
Antibody Species	Rabbit
Theoretical MW (kDa)	17
Reactivity	Human
Specificity	This antibody detects endogenous levels of Actived-Caspase-3 p17 protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Protein A purification

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Isotype	IgG
Recommend Usage	Immunocytochemistry (1:100-1:300) Immunofluorescence (1:100-1:300) Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:2000)
Storage Buffer	In PBS, pH 7.2 (0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence

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Gene Info — CASP3

Entrez GeneID	836
Protein Accession#	P42574
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 apopto sis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved a spartic 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 ca spases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A pr ecursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splici ng of this gene results in two transcript variants that encode the same protein. [provided by RefSe q

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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
- Colorectal cancer
- Epithelial cell signaling in Helicobacter pylori infection
- MAPK signaling pathway
- Natural killer cell mediated cytotoxicity
- p53 signaling pathway
- Pathways in cancer

Disease

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

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- Esophageal Neoplasms
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hematologic Diseases
- Hodgkin Disease
- Kidney Failure
- Leukemia
- Lung carcinoma
- Lung Neoplasms
- Lymphatic Metastasis
- Lymphoma
- Lymphoproliferative Disorders
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Sclerosis
- NARP
- Neoplasm Metastasis
- Neoplasms
- Neovascularization
- Occupational Diseases
- Prostatic Neoplasms
- Pulmonary Disease
- Small Cell Lung Carcinoma
- Stomach Neoplasms
- Urinary Bladder Neoplasms

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- Waldenstrom Macroglobulinemia
- Werner syndrome

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