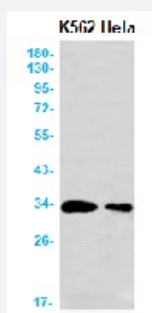


RecomAb™

CASP3 recombinant monoclonal antibody, clone R02-7C2

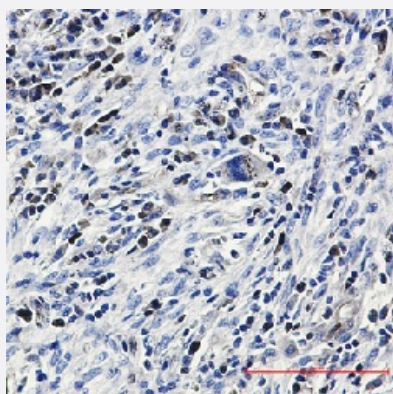
Catalog # RAB01685 Size 100 uL

Applications



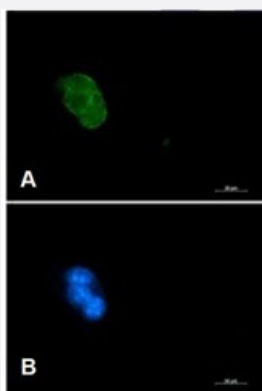
Western Blot

Western blot analysis of Caspase3 in K562, HeLa lysates using human Caspase-3 recombinant monoclonal antibody, clone R02-7C2 (Cat # RAB01685).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry (Formalin-fixed paraffin-embedded sections) of Human lung cancer with Caspase-3 recombinant monoclonal antibody, clone R02-7C2 (Cat # RAB01685).



Immunocytochemistry

Immunocytochemical staining of 293 with Caspase 3 recombinant monoclonal antibody, clone R02-7C2 (Cat # RAB01685). (A) Caspase 3 (green) and (B) DAPI (blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against synthetic peptide of human Caspase-3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human Caspase-3
Theoretical MW (kDa)	Calculated MW: 32 kD
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:100) Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of Caspase3 in K562, Hela lysates using human Caspase-3 recombinant monoclonal antibody, clone R02-7C2 (Cat # RAB01685).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry (Formalin-fixed paraffin-embedded sections) of Human lung cancer with Caspase-3 recombinant monoclonal antibody, clone R02-7C2 (Cat # RAB01685).

- Immunohistochemistry (Frozen sections)

- Immunocytochemistry

Immunocytochemical staining of 293 with Caspase 3 recombinant monoclonal antibody, clone R02-7C2 (Cat # RAB01685). (A) Caspase 3 (green) and (B) DAPI (blue).

- Immunoprecipitation

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