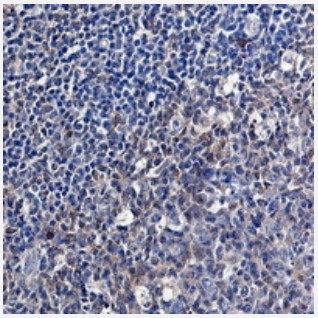
RecomAb™ Sm Size

CASP3 recombinant monoclonal antibody

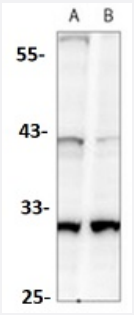
Catalog # RAB09105 Size 50 uL

Applications



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

Immunohistochemical analysis of human tonsil formalin fixed paraffin embedded tissue section using Caspase 3 recombinant monoclonal antibody (Cat # RAB09105). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.113). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Western Blot (Cell lysate)

Western blot analysis of K562 (A), Hela (B) whole cell lysates with Caspase 3 recombinant monoclonal antibody (Cat # RAB09105).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CASP3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide of human Caspase 3.
Theoretical MW (kDa)	31
Reactivity	Human, Mouse

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Specificity	Recognizes endogenous levels of Caspase 3 protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Immunoprecipitation(1:10-1:50) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
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

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

  Immunohistochemical analysis of human tonsil formalin fixed paraffin embedded tissue section using Caspase 3 recombinant monoclonal antibody (Cat # RAB09105). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.113). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

- Western Blot (Cell lysate)

  Western blot analysis of K562 (A), Hela (B) whole cell lysates with Caspase 3 recombinant monoclonal antibody (Cat # RAB09105).

Gene Info — CASP3

Entrez GeneID	836
Protein Accession#	P42574
Gene Name	CASP3
Gene Alias	CPP32, CPP32B, SCA-1

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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

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- 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

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- Neoplasms
- Neovascularization
- Occupational Diseases
- Prostatic Neoplasms
- Pulmonary Disease
- Small Cell Lung Carcinoma
- Stomach Neoplasms
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

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