

Rabbit Caspase-3 Polyclonal Antibody | anti-Casp3 antibody

Polyclonal Antibody to Caspase-3 (active/cleaved)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78322	Rabbit	Dog, Gerbil, Human, Mouse, Rat	Immunoprecipitation, Immunohistochemistry, Western Blot

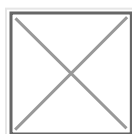
PRODUCT SYNONYMS

Caspase-3; Polyclonal Antibody; Polyclonal Antibody to Caspase-3 (active/cleaved); Casp3; Cpp32; Apopain; CPP-32; Cysteine protease CPP32; LICE; Protein Yama; SCA-1; SREBP cleavage activity 1; Antibody to Caspase-3 (active/cleaved); Anti-Caspase-3 (active/cleaved) Antibody; Caspase-3 (active/cleaved) Antibody; anti-Casp3 antibody

PRODUCT SPECIFICATIONS

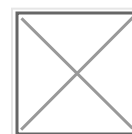
Host	Rabbit
Reactivity	Dog, Gerbil, Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Serum
Form/Format	50 ul sera
Sequence Length	277
Applicable Applications for anti-Casp3 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Information	A recombinant catalytically active human caspase-3 protein was used as immunogen for this antibody
Antigen	Caspase-3 (active/cleaved)
Preparation and Storage	Store the antibody at 4 degree C, stable for 6 months. For long-term storage, store at -20 degree C. Avoid repeated freeze and thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Fig: 2 Formalin-fixed, paraffin-embedded section of irradiated mouse spleen stained for Active/Cleaved Caspase-3 expression using at 1: 2000. Staining is seen in the nuclei of a subset of the cell population. Caspase-3 expression in the nucleus is considered to be a marker of active/caspase-3 expression and apoptosis. Hematoxylin-eosin counterstain.



IHC (Immunohistochemistry)

Fig: 1 Formalin-fixed, paraffin-embedded section of dog ischemic brain stained for Active/Cleaved Caspase-3 expression using at 1: 2000. Staining is seen in the nuclei of dying neurons (black arrow) but not in the morphologically normal nuclei (open arrows). Caspase-3 expression in the nucleus is considered to be a marker of active/caspase-3 expression and apoptosis. Hematoxylin-eosin counterstain.

ADDITIONAL INFORMATION

Related Product Information for anti-Casp3 antibody	Apoptosis, or programmed cell death, is a common property of all multicellular organisms. The current dogma of apoptosis suggests that the components of the core cell-death machinery are integral to cells and widely conserved across species. Caspases, a family of cysteinyl aspartate-specific proteases, are integral components of the cell death machinery (reviewed in Siegal, 2006; and Lavrik et al, 2005). They play a central role in the initiation and execution of apoptotic cell death and in inflammation. Caspases are typically divided into 3 major groups, depending on the structure of their prodomain and their function. Group 1: inflammatory caspases (caspases 1, 4, 5, 11, 12, 14). Group II: initiator of apoptosis caspases (caspases 2, 8, 9). Group II: effector caspases (caspases 3, 6, 7). Caspases are synthesized as zymogens (inactive pro enzyme precursors which require a biochemical change to become active enzymes) with an N-terminal prodomain of variable length followed by a large subunit (p20) and a small subunit (p10). Caspases are activated through proteolytic cleavage at specific asparagine residues that are located within the prodomain, the p10, and p20 subunits. Activation results in the generation of mature active caspases that consist of the heterotetramer p20 ₂ -p10 ₂ . Active caspases mediate cell death and inflammation through cleavage of particular cellular substrates that are involved in these processes. The Caspase-3 polyclonal antisera recognizes the proform of caspase-3 (approx. 32 kDa), and the large (approx. 14-21 kDa) and small (approx. 10 kDa) subunits of active/cleaved Caspase-3.
Product Categories/Family for anti-Casp3 antibody	Antibodies; Apoptosis

NCBI AND UNIPROT INFORMATION

NCBI GI #	2493527
NCBI GeneID	12367
UniProt Accession #	P70677; O08668; Q8CHV5; Q9QWI4
Molecular Weight	31,475 Da
NCBI Official Full Name	Caspase-3
NCBI Official Synonym Full Names	caspase 3
NCBI Official Symbol	Casp3
NCBI Official Synonym Symbols	CC3; AC-3; Lice; Yama; mldy; CPP32; SCA-1; CASP-3; CPP-32; Caspase-3; A830040C14Rik
NCBI Protein Information	caspase-3
UniProt Protein Name	Caspase-3
UniProt Gene Name	Casp3
UniProt Synonym Gene Names	Cpp32; CASP-3; CPP-32; SCA-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/caspase-3-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/78322>