

Rabbit anti-Mouse, Rat Caspase-9 p35/Casp9 Polyclonal Antibody | anti-Casp9 antibody

Anti-Caspase-9 p35/Casp9 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125515	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

Caspase-9 p35/Casp9; Polyclonal Antibody; Anti-Caspase-9 p35/Casp9 Antibody; Casp9; Mch6; Caspase-9; CASP-9; EC 3. 4. 22. 62; Apoptotic protease Mch-6; Apoptotic protease-activating factor 3; APAF-3; ICE-like apoptotic protease 6; ICE-LAP6; Caspase-9 subunit p35; caspase 9; apoptosis-related cysteine peptidase; anti-Casp9 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Caspase-9 p35/Casp9 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-Casp9 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived mouse Caspase-9 p35/Casp9 recombinant protein (Position: E3-D266).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of mouse spleen tissues using anti-Caspase-9 p35/Casp9 antibody (AAA125515). Overlay histogram showing mouse spleen tissues stained with AAA125515 (Blue line). The tissues were blocked with 10% normal goat serum. And then incubated with rabbit anti-Caspase-9 p35/Casp9 Antibody (AAA125515, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DylLight®488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Caspase-9 p35/Casp9 using anti-Caspase-9 p35/Casp9 antibody (AAA125515). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: mouse heart tissue lysates Lane 2: rat heart tissue lysates Lane 3: rat skeletal muscle tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-Caspase-9 p35/Casp9 antigen affinity purified polyclonal antibody (Catalog # AAA125515) at 0. 5 µg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Caspase-9 p35/Casp9 at approximately 37/46KD. The expected band size for Caspase-9 p35/Casp9 is at 37/46KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Casp9 antibody	Caspase-9 is an enzyme that in humans is encoded by the CASP9 gene. This gene is part of a family of caspases, aspartate-specific cysteine proteases well studied for their involvement in immune and apoptosis signaling. This protein, the initiator caspase, is activated after cytochrome c release from mitochondria and targets downstream effectors. In mouse, deficiency of this gene can cause perinatal lethality. This protein may have a role in normal brain development. Alternative splicing results in multiple transcript variants that encode different protein isoforms.
References	1. Chew, S. K., Chen, P., Link, N., Galindo, K. A., Pogue, K., Abrams, J. M. Genome-wide silencing in Drosophila captures conserved apoptotic effectors. Nature 460: 123-127, 2009. 2. Hadano, S., Nasir, J., Nichol, K., Rasper, D. M., Vaillancourt, J. P., Sherer, S. W., Beatty, B. G., Ikeda, J. -E., Nicholson, D. W., Hayden, M. R. Genomic organization of the human caspase-9 gene on chromosome 1p36. 1-p36. 3. Mammalian Genome 10: 757-760, 1999. 3. Hakem, R., Hakem, A., Duncan, G. S., Henderson, J. T., Woo, M., Soengas, M. S., Elia, A., de la Pompa, J. L., Kagi, D., Khoo, W., Potter, J., Yoshida, R., Kaufman, S. A., Lowe, S. W., Penninger, J. M., Mak, T. W. Differential requirement for caspase 9 in apoptotic pathways in vivo. Cell 94: 339-352, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31560479
NCBI GeneID	12371
NCBI Accession #	NP_056548.2
NCBI GenBank Nucleotide #	NM_015733.5
UniProt Accession #	Q8C3Q9
Molecular Weight	49,979 Da
NCBI Official Full Name	caspase-9 isoform 1
NCBI Official Synonym Full Names	caspase 9
NCBI Official Symbol	Casp9
NCBI Official Synonym Symbols	Mch6; APAF-3; CASP-9; AI115399; AW493809; ICE-LAP6; Caspase-9
NCBI Protein Information	caspase-9
UniProt Protein Name	Caspase-9
UniProt Gene Name	Casp9
UniProt Synonym Gene Names	Mch6; CASP-9; APAF-3; ICE-LAP6

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-9-p35-casp9-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125515>