

Rabbit Caspase-5/CASP5 Polyclonal Antibody | anti-CASP5 antibody

Anti-Caspase-5/CASP5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125743	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

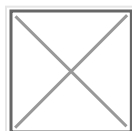
PRODUCT SYNONYMS

Caspase-5/CASP5; Polyclonal Antibody; Anti-Caspase-5/CASP5 Antibody; CASP5; ICH3; Caspase-5; CASP-5; EC 3. 4. 22. 58; ICE(rel-III; Protease ICH-3; Protease TY [Cleaved into: Caspase-5 subunit p20; Caspase-5 subunit p10]; caspase 5; anti-CASP5 antibody

PRODUCT SPECIFICATIONS

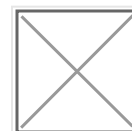
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Caspase-5/CASP5 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-CASP5 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Caspase-5/CASP5 recombinant protein (Position: D137-N434).
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



IHC (Immunohistochemistry)

Figure 5. IHC analysis of Caspase-5/CASP5 using anti-Caspase-5/CASP5 antibody (AAA125743).Caspase-5/CASP5 was detected in paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Caspase-5/CASP5 Antibody (AAA125743) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



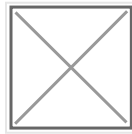
IHC (Immunohistochemistry)

Figure 4. IHC analysis of Caspase-5/CASP5 using anti-Caspase-5/CASP5 antibody (AAA125743).Caspase-5/CASP5 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Caspase-5/CASP5 Antibody (AAA125743) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



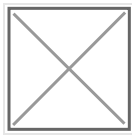
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of THP-1 cells using anti-Caspase-5/CASP5 antibody (AAA125743).Overlay histogram showing THP-1 cells stained with AAA125743 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Caspase-5/CASP5 Antibody (AAA125743, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®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-5/CASP5 using anti-Caspase-5/CASP5 antibody (AAA125743).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: rat lung tissue lysatesLane 2: mouse lung 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-5/CASP5 antigen affinity purified polyclonal antibody (Catalog # AAA125743) 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-5/CASP5 at approximately 50KD. The expected band size for Caspase-5/CASP5 is at 50KD.



IF (Immunofluorescence)

Figure 2. IF analysis of Caspase-5/CASP5 using anti- Caspase-5/CASP5 antibody (AAA125743).Caspase-5/CASP5 was detected in immunocytochemical section of CACO-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- Caspase-5/CASP5 Antibody (AAA125743) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-CASP5 antibody	This gene encodes 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. Overexpression of the active form of this enzyme induces apoptosis in fibroblasts. Max, a central component of the Myc/Max/Mad transcription regulation network important for cell growth, differentiation, and apoptosis, is cleaved by this protein; this process requires Fas-mediated dephosphorylation of Max. The expression of this gene is regulated by interferon-gamma and lipopolysaccharide. Alternatively spliced transcript variants have been identified for this gene.
References	1. Munday, N. A., Vaillancourt, J. P., Ali, A., Casano, F. J., Miller, D. K., Molineaux, S. M., Yamin, T. -T., Yu, V. L., Nicholson, D. W. Molecular cloning and pro-apoptotic activity of ICE(rel)II and ICE(rel)III, members of the ICE/CED-3 family of cysteine proteases. J. Biol. Chem. 270: 15870-15876, 1995. 2. Nasir, J., Theilmann, J. L., Vaillancourt, J. P., Munday, N. A., Ali, A., Scherer, S., Beatty, B., Nicholson, D. W., Hayden, M. R. Interleukin-1-beta-converting enzyme (ICE) and related cell death genes ICE(rel)-II and ICE(rel)-III map to the same PAC clone at band 11q22. 2-22. 3. Mammalian Genome 8: 611-613, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	209870071
NCBI GeneID	838
NCBI Accession #	NP_001129581.1
NCBI GenBank Nucleotide #	NM_001136109.1
UniProt Accession #	P51878; Q0QVY7; Q0QVY8; Q0QVZ0; Q0QVZ1; Q0QVZ2; Q14DD6; Q1HBJ3; Q6DJV7; B4DKP5
Molecular Weight	49,736 Da
NCBI Official Full Name	caspase-5 isoform b

NCBI Official Synonym Full Names	caspase 5, apoptosis-related cysteine peptidase
NCBI Official Symbol	CASP5
NCBI Official Synonym Symbols	ICH-3; ICEREL-III; ICE(rel)III
NCBI Protein Information	caspase-5; CASP-5; TY protease; protease TY; ICE(rel)-III; protease ICH-3; caspase 5, apoptosis-related cysteine protease
UniProt Protein Name	Caspase-5
UniProt Gene Name	CASP5
UniProt Synonym Gene Names	ICH3; CASP-5
UniProt Entry Name	CASP5_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/caspase-5-casp5-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/125743>