ARG66261
anti-Caspase 9 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Caspase 9
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Chk
Tested Application	ICC/IF, IHC-P
Host	Mouse
Clonality	Monoclonal
Isotype	IgG
Target Name	Caspase 9
Species	Human
Immunogen	Synthetic peptide of Human Caspase-9
Conjugation	Un-conjugated
Alternate Names	APAF-3; ICE-LAP6; PPP1R56; CASP-9; Apoptotic protease-activating factor 3; Caspase-9; ICE-like apoptotic protease 6; Apoptotic protease Mch-6; APAF3; MCH6; EC 3.4.22.62

Application Instructions

Application table

Application	Dilution
ICC/IF	1:200
IHC-P	1:50 - 1:300

Application Note: IHC-P: Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 46 kDa

Properties

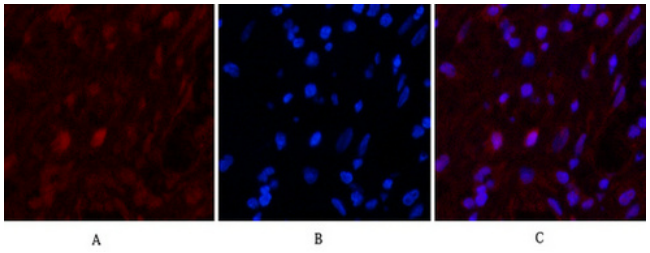
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

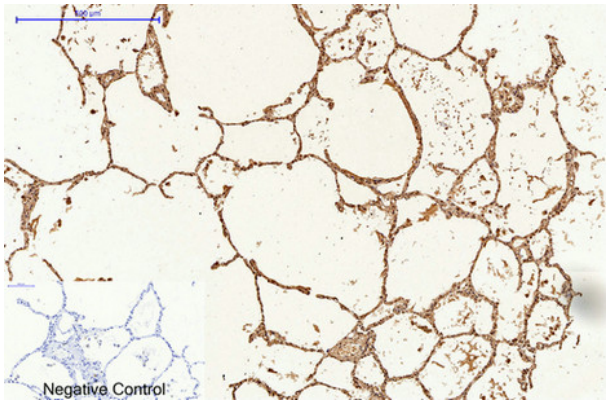
Gene Symbol	CASP9
Gene Full Name	caspase 9, apoptosis-related cysteine peptidase
Background	This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1; this step is thought to be one of the earliest in the caspase activation cascade. This protein is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]
Function	Involved in the activation cascade of caspases responsible for apoptosis execution. Binding of caspase-9 to Apaf-1 leads to activation of the protease which then cleaves and activates caspase-3. Promotes DNA damage-induced apoptosis in a ABL1/c-Abl-dependent manner. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP). Isoform 2 lacks activity is an dominant-negative inhibitor of caspase-9. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody; Mitochondria/Caspase Dependant Apoptosis Marker antibody
Calculated Mw	46 kDa
PTM	Cleavages at Asp-315 by granzyme B and at Asp-330 by caspase-3 generate the two active subunits. Caspase-8 and -10 can also be involved in these processing events. Phosphorylated at Thr-125 by MAPK1/ERK2. Phosphorylation at Thr-125 is sufficient to block caspase-9 processing and subsequent caspase-3 activation. Phosphorylation on Tyr-153 by ABL1/c-Abl; occurs in the response of cells to DNA damage. [UniProt]

Images



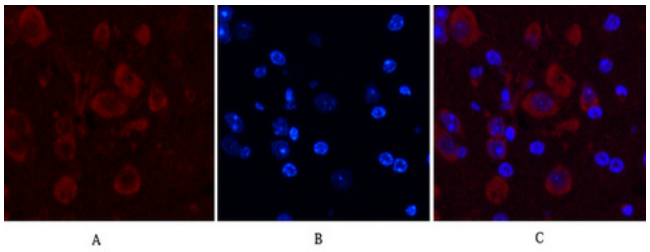
ARG66261 anti-Caspase 9 antibody ICC/IF image

Immunofluorescence: Human appendix tissue stained with ARG66261 anti-Caspase 9 antibody (red) at 1:200 dilution (4°C, overnight). Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.



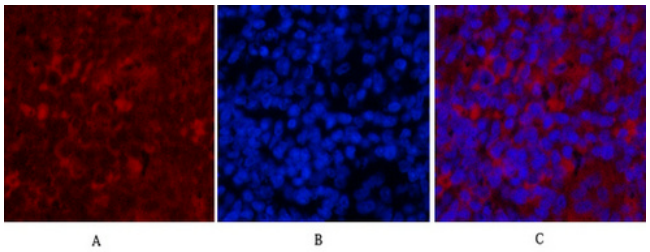
ARG66261 anti-Caspase 9 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung tissue stained with ARG66261 anti-Caspase 9 antibody at 1:200 dilution (4°C, overnight). Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0) for 20 min. Negative control was used by secondary antibody only.



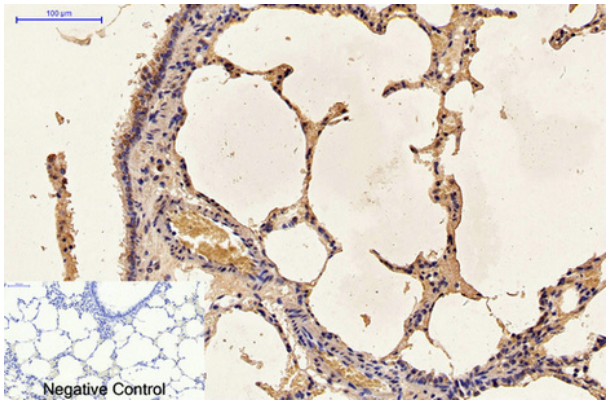
ARG66261 anti-Caspase 9 antibody ICC/IF image

Immunofluorescence: Mouse brain tissue stained with ARG66261 anti-Caspase 9 antibody (red) at 1:200 dilution (4°C, overnight). Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.



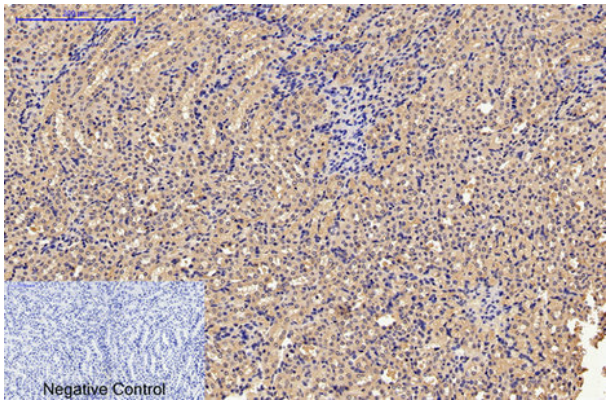
ARG66261 anti-Caspase 9 antibody ICC/IF image

Immunofluorescence: Rat spleen tissue stained with ARG66261 anti-Caspase 9 antibody (red) at 1:200 dilution (4°C, overnight). Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.



ARG66261 anti-Caspase 9 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat lung tissue stained with ARG66261 anti-Caspase 9 antibody at 1:200 dilution (4°C, overnight). Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0) for 20 min. Negative control was used by secondary antibody only.



ARG66261 anti-Caspase 9 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse kidney tissue stained with ARG66261 anti-Caspase 9 antibody at 1:200 dilution (4°C, overnight). Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0) for 20 min. Negative control was used by secondary antibody only.