ARG54651
anti-Caspase 9 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Caspase 9
Tested Reactivity	Hu
Tested Application	ELISA, ICC/IF, IP, WB
Specificity	Caspase-9 antibody is predicted to have no cross reactivity to other members in the caspase family.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Caspase 9
Immunogen	Synthetic peptide (20 aa) within aa. 290-340 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
ELISA	Assay-Dependent
ICC/IF	ICC: 2 µg/mL. IF: 20 µg/mL
IP	Assay-Dependent
WB	1 µg/mL

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HeLa Cell Lysate
Observed Size	45 kDa

Properties

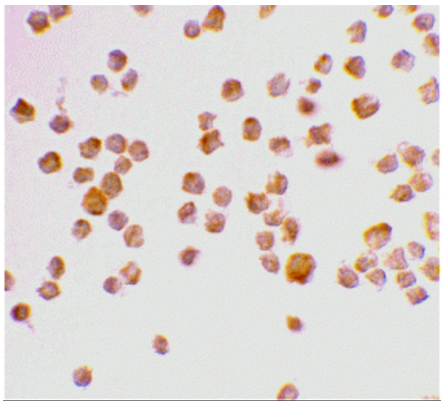
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. 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

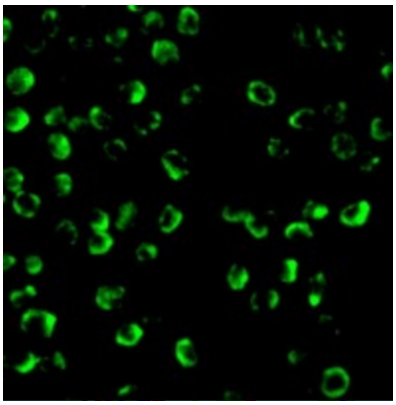
Database links	GeneID: 842 Human Swiss-port # P55211 Human
Gene Symbol	CASP9
Gene Full Name	caspase 9, apoptosis-related cysteine peptidase
Background	Caspase-9 Antibody: Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adapter molecules and members of the caspase family of proteases. A novel member in the caspase family was recently identified and designated ICE-LAP6, Mch6, and Apaf-3. Caspase-9 and Apaf-1 bind to each other, which leads to caspase-9 activation. Caspase-9 is also activated by granzyme B and CPP32. Activated caspase-9 cleaves and activates caspase-3 that is one of the key proteases, being responsible for the proteolytic cleavage of many key proteins in apoptosis. Caspase-9 play a central role in cell death induced by a wide variety of apoptosis activators including TNFα, TRAIL, anti-CD-95, FADD, and TRADD. Caspase-9 is expressed in a variety of human tissues. |
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.

Images



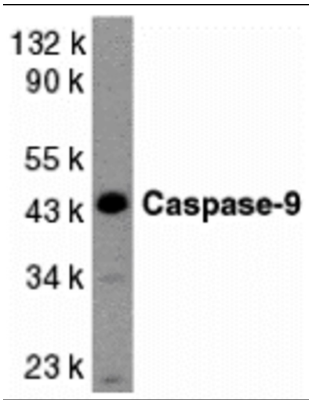
ARG54651 anti-Caspase 9 antibody ICC/IF image

Immunocytochemistry: K562 cells stained with ARG54651 anti-Caspase 9 antibody at 2 µg/ml.



ARG54651 anti-Caspase 9 antibody ICC/IF image

Immunofluorescence: K562 cells stained with ARG54651 anti-Caspase 9 antibody at 20 µg/ml.



ARG54651 anti-Caspase 9 antibody WB image

Western blot: HeLa whole cell lysate stained with ARG54651 anti-Caspase 9 antibody at 1 µg/ml.