

Product datasheet

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ARG44028 anti-Caspase 9 antibody

Package: 50 μg Store at: -20°C

Summary

Product Description Rabbit Monoclonal antibody recognizes Caspase 9

Tested Reactivity Hu, Ms
Tested Application IP, WB
Host Rabbit

Clonality Monoclonal

Isotype IgG

Target Name Caspase 9
Species Human

Immunogen Synthetic peptide corresponding to amino-terminal residues adjacent to Asp315 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
	IP	1:50
	WB	1:500-1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	33 ~ 45 kDa	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide, 50% Glycerol and 0.4 - 0.5 mg/ml BSA.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol and 0.4 - 0.5 mg/ml BSA

Concentration 0.5 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. 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 Caspases are synthesized as inactive pro-enzymes that are processed to active form in cells undergoing

apoptosis. Caspase-9 is an important member of the caspase family. Upon induction of apoptosis, Cytochrome c released from mitochondria associates with pro-caspase-9 (47 kDa) and Apaf-1. The complex processes pro-caspase-9 into a large subunit (37 kDa/17 kDa) and a small subunit (10 kDa). Cleaved caspase-9 further processes other caspases including caspase-3 and caspase-6, to initiate a caspase cascade leading to apoptosis. The affinity purified antibody recognizing the active forms of caspase-9 provides a new tool for identifying apoptotic cell populations in both tissue sections and

cultured cells.

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

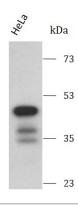
PTM Cleavages at Asp-315 by granzyme B and at Asp-330 by caspase-3 generate the two active subunits.

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.

Images



ARG44028 anti-Caspase 9 antibody WB image

Western blot: HeLa stained with ARG44028 anti-Caspase 9 antibody at 1:500 dilution.