

Anti-Caspase-9 Antibody

Catalog # ABO10909

Product Information

Application	WB, IHC-P
Primary Accession	P55211
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Caspase-9(CASP9) detection. Tested with WB, IHC-P in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	842
Other Names	Caspase-9, CASP-9, 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 subunit p10, CASP9, MCH6
Calculated MW	46281
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Tissue Specificity	Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes. .
Source	Eukaryota
Protein Name	Caspase-9(CASP-9)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Caspase-9(183-198aa SNIDCEKLRRRFSSLH).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the peptidase C14A family.

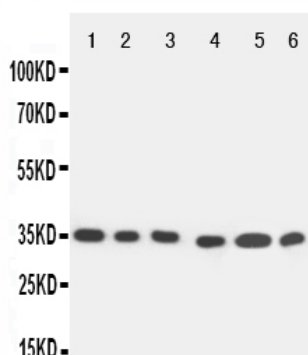
Protein Information

Name	CASP9
Synonyms	MCH6
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 effector caspases caspase-3 (CASP3) or caspase-7 (CASP7). Promotes DNA damage- induced apoptosis in a ABL1/c-Abl-dependent manner. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP). Cleaves BIRC6 following inhibition of BIRC6-caspase binding by DIABLO/SMAC (PubMed: 36758105 , PubMed: 36758106).
Tissue Location	Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes.

Background

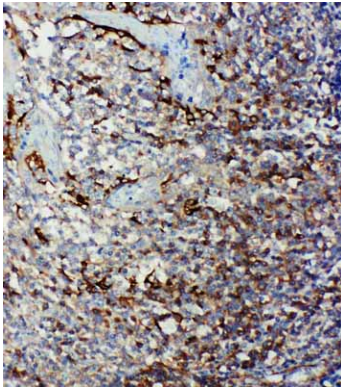
CASP9(CASPASE9), also called APAF3, is an initiator caspase, encoded by the CASP9 gene. The CASP9 gene is mapped to chromosome 1p36.3-p36.1 by FISH. CASP9 is identified as a member of the caspase family that participates in caspase-3 activation in vitro. And it also regarded as the most upstream member of the apoptotic protease cascade that is triggered by cytochrome c and dATP. Its genomic coordinates(GRCh37) is 1:15,818,768-15,851,284. The crystal structure of CASP9 is complex with the BIR3 in an inhibitory domain of XIAP at 2.4-angstrom resolution and the CASP9 gene contains 9 exons and spans approximately 35 kb of genomic DNA. Caspase-9 and APAF1 bind to each other via their respective NH2-terminal CED-3 homologous domains in the presence of cytochrome c and dATP, an event that leads to caspase-9 activation. CASP9 activity increases dramatically upon association with the apoptosome complex. And the majority of Casp9 knockout mice died perinatally with a markedly enlarged and malformed cerebrum caused by reduced apoptosis during brain development.

Images



Anti-Caspase-9 antibody, ABO10909, Western blotting
 All lanes: Anti Caspase-9 (ABO10909) at 0.5ug/ml
 Lane 1: SMMC Whole Cell Lysate at 40ug
 Lane 2: MCF-7 Whole Cell Lysate at 40ug
 Lane 3: CEM Whole Cell Lysate at 40ug
 Lane 4: JURKAT Whole Cell Lysate at 40ug
 Lane 5: RAJI Whole Cell Lysate at 40ug
 Lane 6: HELA Whole Cell Lysate at 40ug
 Predicted bind size: 35KD
 Observed bind size: 35KD

Anti-Caspase-9 antibody, ABO10909, IHC(P)
 IHC(P): Human Tonsil Tissue



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.