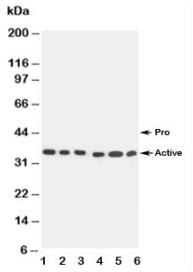
Caspase-9 Antibody (R30673)

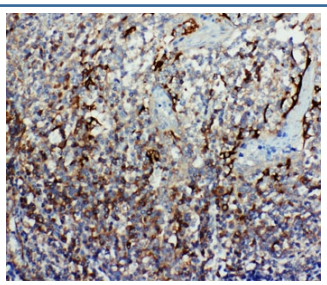
Catalog No.	Formulation	Size
R30673	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P55211
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 0.5-1ug/ml
Limitations	This Caspase-9 antibody is available for research use only.



Western blot testing of Caspase-9 antibody and Lane 1: SMMC-7721; 2: MCF-7; 3: CEM; 4: Jurkat; 5: Raji; 6: HeLa



IHC-P: Caspase-9 antibody testing of human tonsil tissue

Description

Caspase-9, also called APAF3, is an initiator caspase, encoded by the CASP9 gene. The gene is mapped to chromosome 1p36.3-p36.1 by FISH. CASP9 is identified as a member of the caspase family that participates in CASP3 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. The crystal structure of CASP9 is complex with the BIR3 in an inhibitory domain of XIAP at 2.4-angstrom resolution and the 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 CASP9 activation. 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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Caspase-9 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 183-198 (SNIDCEKLRRRFSSLH-human) were used as the immunogen for this Caspase-9 antibody. This sequence is on the large subunit.

Storage

After reconstitution, the Caspase-9 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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