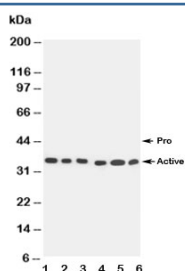


Caspase-9 Antibody (R30673)

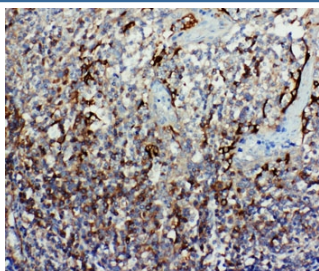
Catalog No.	Formulation	Size
R30673	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
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.