

[KO Validated] Caspase-9 Rabbit pAb

Catalog No.	A0281	Category	Polyclonal Antibodies
Applications	WB, IHC, IF	Observed MW	36KDa/41KDa/46KDa
Cross-reactivity	Human, Mouse, Rat	Calculated MW	17kDa/30kDa/36kDa/46kDa

Immunogen Information

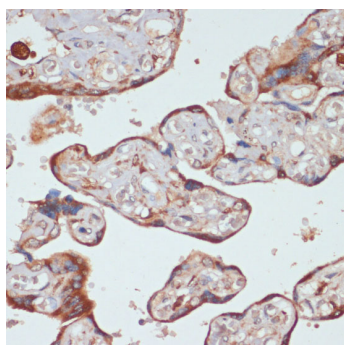
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-98 of human Caspase-9 (NP_001220.2).
Gene ID	842
Swiss prot	P55211
Synonyms	CASP9;APAF-3;APAF3;ICE-LAP6;MCH6;PPP1R56;caspa se-9;casp9;Caspase 9

Product information

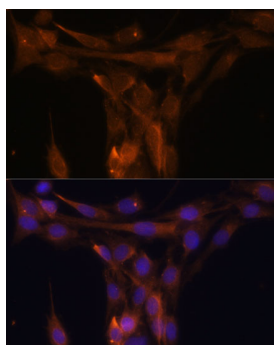
Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

Background

This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1; this step is thought to be one of the earliest in the caspase activation cascade. This protein is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants.



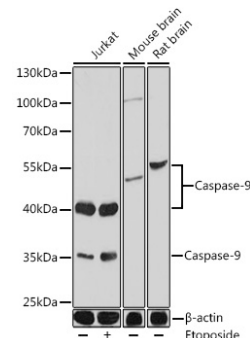
Immunohistochemistry of paraffin-embedded human placenta using Caspase-9 antibody (A0281) at dilution of 1:100 (40x lens).



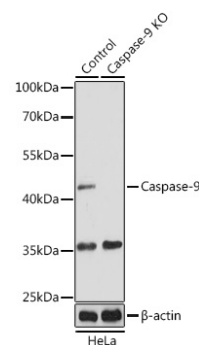
Immunofluorescence analysis of C6 cells using Caspase-9 antibody (A0281) at dilution of 1:100. Blue: DAPI for nuclear staining.

Recommended Dilutions

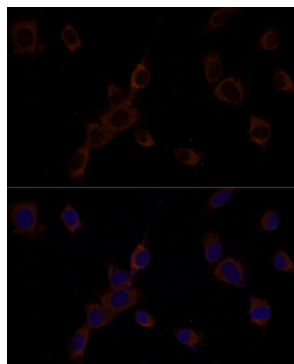
WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF	1:50 - 1:200



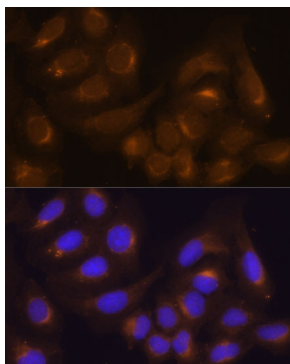
Western blot analysis of extracts of various cell lines, using Caspase-9 pAb (A0281) at 1:1000 dilution. Jurkat cells were treated by Etoposide (25 uM) at 37°C for 5 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



Western blot analysis of extracts from normal (control) and Caspase-9 knockout (KO) HeLa cells, using Caspase-9 antibody (A0281) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



Immunofluorescence analysis of NIH/3T3 cells using Caspase-9 antibody (A0281) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using Caspase-9 antibody (A0281) at dilution of 1:100. Blue: DAPI for nuclear staining.