

Product datasheet for **AP00153PU-N**

Caspase 9 (CASP9) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 0.5-4.0 µg/ml. Mouse small intestine and rat kidney tissue lysates can be used as Positive Controls.
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide surrounding amino acid 345 of Mouse Caspase-9
Specificity:	The antibody detects 45 kDa procaspase-9, 35/37 kDa cleaved large fragment and the 25 kDa fully cleaved Caspase-9.
Formulation:	PBS, pH 7.2, containing 30% Glycerol, 0.5% BSA and 0.01% Thimerosal. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein A Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at -20°C or (in aliquots) at -70°C for long term storage. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	caspase 9
Database Link:	Entrez Gene 12371 Mouse Entrez Gene 58918 Rat P55211



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Background:

Caspase-9 is one of the most important caspases among the caspase family members. Upon induction of apoptosis, cytochrome c released from mitochondria associates with procaspase-9/Apaf-1. The complex processes procaspase-9 into a large subunit (35 kDa or 17 kDa) and small (10 kDa) by self-cleavage at D315. Activated caspase-9 further cleaves other caspase members including caspase-3, one of the proteases responsible for the proteolytic cleavage of many key proteins in apoptosis. In addition to self-cleavage, procaspase-9 can also be cleaved in vivo by caspase-3 at D330. The process served as a positive feedback to amplify the apoptotic signal in caspase activation pathway.

Synonyms:

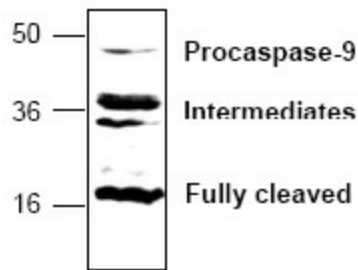
CASP-9, CASP9, MCH6, ICE-LAP6, APAF-3, APAF3

Protein Families:

Druggable Genome, Protease, Stem cell - Pluripotency

Protein Pathways:

Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Endometrial cancer, Huntington's disease, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Parkinson's disease, Pathways in cancer, Prostate cancer, Small cell lung cancer, VEGF signaling pathway, Viral myocarditis

Product images:

Western blot analysis of Caspase-9 expression with mouse small intestine tissue lysate.