

# Product Name: Caspase-9 (phospho Tyr153) Rabbit Polyclonal Antibody Catalog #: APRab04375

For research use only.

#### **Summary**

**Description** Rabbit polyclonal Antibody

**Host** Rabbit

Application WB,ICC/IF,ELISA
Reactivity Human,Rat,Mouse
Conjugation Unconjugated
Modification Phosphorylated

**Isotype** IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

**Storage** Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer** 

preservative N.

**Purification** Affinity purification

### **Application**

**Dilution Ratio** WB 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000

Molecular Weight 46kDa

## **Antigen Information**

**Alternative Names** 

Gene Name CASP9

CASP9; MCH6; Caspase-9; CASP-9; Apoptotic protease Mch-6; Apoptotic protease-

activating factor 3; APAF-3; ICE-like apoptotic protease 6; ICE-LAP6

 Gene ID
 842.0

 SwissProt ID
 P55211

The antiserum was produced against synthesized peptide derived from human Caspase 9 Immunogen

around the phosphorylation site of Tyr153. AA range:119-168

## **Background**

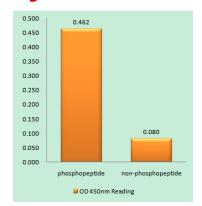


CASP9 encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. Caspase 9 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. Caspase 9 is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants.catalytic activity:Strict requirement for an Asp residue at position P1 and with a marked preference for His at position P2. It has a preferred cleavage sequence of Leu-Gly-His-Asp-|-Xaa.,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 caspase-3. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP), function: Isoform 2 lacks activity is an dominant-negative inhibitor of caspase-9., online information: Caspase-9 entry, PTM: Cleavages at Asp-315 by granzyme B and at Asp-330 by caspase-3 generate the two active subunits. Caspase-8 and -10 can also be involved in these processing events., similarity: Belongs to the peptidase C14A family., similarity: Contains 1 CARD domain., subunit: Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a 35 kDa (p35) and a 10 kDa (p10) subunit. Caspase-9 and APAF1 bind to each other via their respective NH2-terminal CED-3 homologous domains in the presence of cytochrome C and ATP. Interacts with the inhibitors BIRC2, BIRC4, BIRC5 and BIRC7., tissue specificity: Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues.,

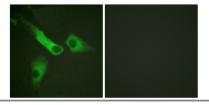
#### **Research Area**

p53;Apoptosis\_Inhibition;Apoptosis\_Mitochondrial;Apoptosis\_Overview;VEGF;Alzheimer's disease;Parkinson's disease;Amyotrophic lateral sclerosis (ALS);Huntington's disease;Pathways in cancer;Colorectal cancer;Pancreatic cancer;Endometrial cancer;Prostate cancer;Small cell lung cancer;Non-small cell lung cancer;Viral myocarditis;

#### **Image Data**



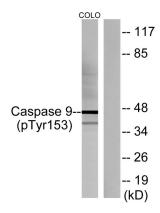
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Caspase 9 (Phospho-Tyr153) Antibody



Immunofluorescence analysis of HepG2 cells, using Caspase 9 (Phospho-Tyr153) Antibody. The picture on the right is blocked with the phospho peptide.

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Western blot analysis of lysates from COLO205 cells, using Caspase 9 (Phospho-Tyr153) Antibody. The lane on the right is blocked with the phospho peptide.