

Caspase 9 (3-20) Mouse mAb

CatalogNo: YM3077

Orthogonal Validated Comparable Abs 

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat, chicken

Applications

- WB, IHC, IF, IP

MW

- 46kD (Observed)

Recommended Dilution Ratios

WB 1:1000-5000

IP 1:200

IF 1:200

IHC 1:50-300

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)**Formulation** PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Basic Information

Clonality Monoclonal**Clone Number** 3-20

Immunogen Information

Immunogen Synthetic Peptide of Caspase 9**Specificity** The antibody detects endogenous Caspase 9 protein.

| Target Information

Gene name CASP9

Protein Name Caspase9

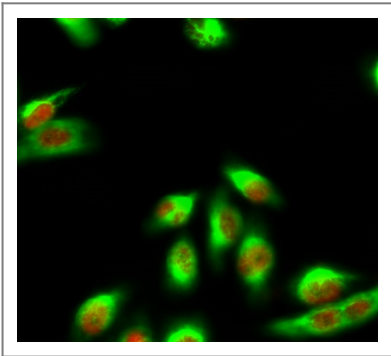
Organism	Gene ID	UniProt ID
Human	842 ;	P55211 ;

Cellular Localization nucleus,mitochondrion,cytosol,apoptosome,

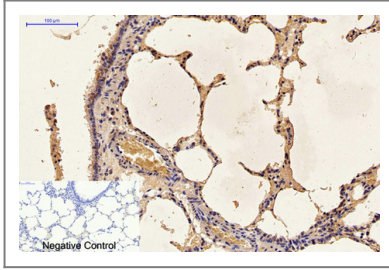
Tissue specificity Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes.

Function 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.,

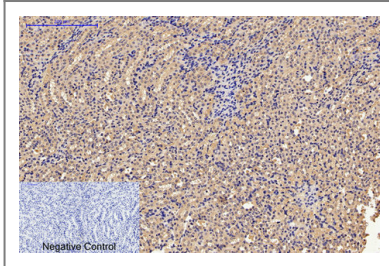
| Validation Data



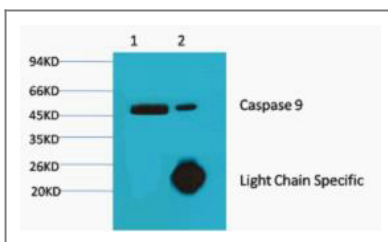
Immunofluorescence analysis of Hela cell. 1,eIF2α Polyclonal Antibody(red) was diluted at 1:200(4° overnight). Caspase 9 Monoclonal Antibody(3-20)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).



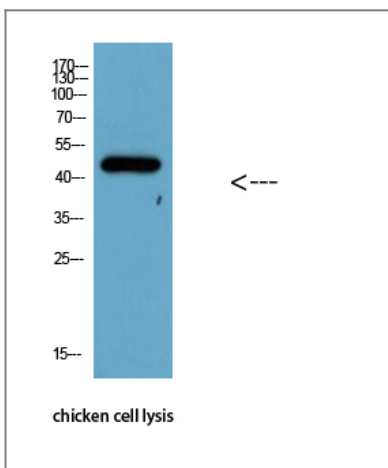
Immunohistochemical analysis of paraffin-embedded Rat-lung tissue.
 1, Caspase 9 Monoclonal Antibody(3-20) was diluted at 1:200(4°C, overnight).
 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min).
 3, Secondary antibody was diluted at 1:200(room temperature, 30min).
 Negative control was used by secondary antibody only.



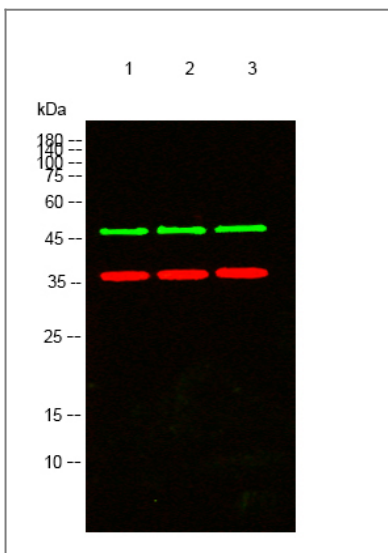
Immunohistochemical analysis of paraffin-embedded Mouse-kidney tissue.
 1, Caspase 9 Monoclonal Antibody(3-20) was diluted at 1:200(4°C, overnight).
 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min).
 3, Secondary antibody was diluted at 1:200(room temperature, 30min).
 Negative control was used by secondary antibody only.



1) Input: Hela Cell Lysate 2) IP product: IP dilute 1:200



Western Blot analysis of chicken cell lysis using Antibody diluted at 1:1000



Western blot analysis of lysates from 1) Hela, 2) Jurkat, 3) 3T3 cells, (Green) primary antibody was diluted at 1:1000, 4° over night, secondary antibody(cat:RS23910) was diluted at 1:10000, 37° 1hour. (Red) GAPDH Polyclonal Antibody (cat:YM3215) antibody was diluted at 1:5000 as loading control, 4° over night, secondary antibody(cat:RS23720) was diluted at 1:10000, 37° 1hour.

| Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code
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product information:
Caspase 9 (3-20)
Mouse mAb

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