ProteinFind® Anti-Caspase 9 Mouse Monoclonal Antibody

Cat. No. HA102

Storage: PBS (pH 7.4), 0.02% Sodium Azide, 50% Glycerol; at -20℃ for two years, avoid repeated freezing and thawing.

Description

Cysteine-aspartic acid protease 9 (Caspase 9) is one of the Caspase family and is involved in the activation of the Caspases cascade in the process of apoptosis. Under normal conditions, Caspase 9 exists in the cell as an inactive zymogen. When the cell is stimulated by the apoptotic signal, the combination of Apaf-1 and Procaspase 9[1] causes Procaspase 9 is activated by cleavage [2], and the activated Caspase 9 causes the Caspase 3 to be cleaved so that the cascade activation of Caspases eventually leads to the cell apoptosis.

Species reactivity

Human, mouse and hamster (Species reactivity is based on WB experiment)

Isotype: Mouse IgG1

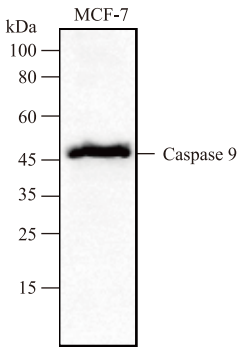
Immunogen

- Recombinant human Caspase 9 full-length protein
- Entrez Gene ID: 842
- UniProt ID: P55211

Applications and Suggested Dilution

- Western Blot: 1: 500-4000 dilution
- IF: 1: 200 dilution
- FC: 1: 100 dilution

Positive control cell line: MCF-7 cells, HeLa cells

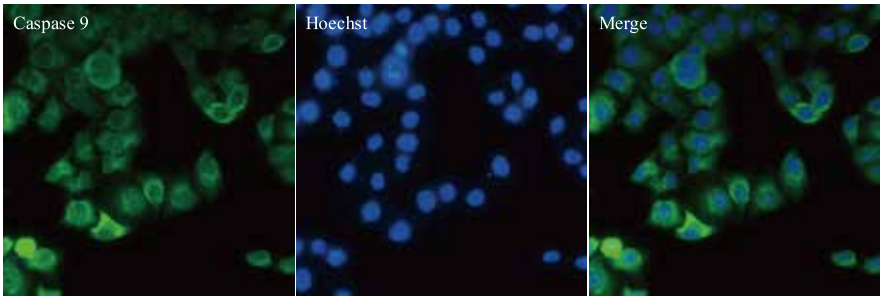


WB:

ProteinFind® Anti-Caspase 9 Mouse Monoclonal Antibody was used to detect of Capase 9 protein expression in MCF-7 cells

Primary antibody dilution factor: 1:1000

Predicted molecular weight: 47 kDa

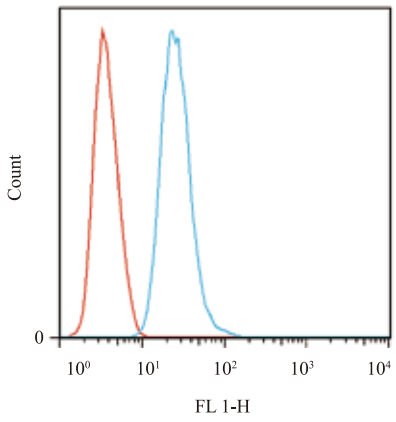


IF:

ProteinFind® Anti-Caspase 9 Mouse Monoclonal Antibody (green) was used to detect the location of endogenous Capase 9 in HeLa cells

Hoechst is used to mark the nucleus (blue)

Primary antibody dilution factor: 1:200



FC:

FC test result with *ProteinFind*® Anti-Caspase 9 Mouse Monoclonal Antibody (green) on HeLa cells.

The negative control is Mouse IgG (red)

Primary antibody dilution factor: 1:100

Reference:

[1]. Martin Renatus, Henning R. Steenicke, Fiona L. Scott, Robert C. Liddington, and Guy S. Salvesen. Dimer formation drives the activation of the cell death protease caspase 9. Proc Natl Acad Sci U S A. 2001 Dec 4; 98 (25): 14250-5

[2]. Xuesong Liu, Caryn Naekyung Kim. Jie Yang, Ronald Jemmerson, and Xiaodong Wang. Induction of Apoptotic Program in Cell-Free Extracts: Requirement for dATP and Cytochrome c. Cell. 1996 Jul 12; 86 (1): 147-57

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