

10-1003: Monoclonal Antibody to Caspase-3 (Pro and Active) (Clone: ABM1C12)

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| Clonality : | Monoclonal |
| Application : | IHC,FACS,WB |
| Reactivity : | Human |
| Gene : | Casp3 |
| Gene ID : | 836 |
| Uniprot ID : | P42574 |
| Format : | Purified |
| Alternative Name : | Casp3,Cpp32 |
| Isotype : | Mouse IgG1 Kappa |
| Immunogen Information : | Full length recombinant Caspase-3 protein was used as the immunogen for this antibody. |

Description

Caspases are a member of the cysteine-aspartic acid protease family. Caspase-3 (31 kDa) is an executionary caspase which directly cleaves and activates poly(ADP-ribose) polymerase (PARP), sterol regulatory element binding proteins (SREBPs) or it can also interact with other caspases like caspase-6, -7 and -9. Increased levels of caspase-3 are involved in Huntington Disease-associated cell death. Caspase-3 is the principal caspase in mediating the cleavage of amyloid-beta 4A precursor protein (APP), which is related with neuronal death in Alzheimer's disease. Like other caspases, caspase-3 is also synthesized as a zymogen procaspase which is activated by specific proteolytic cleavage. High levels of caspase-3 are observed in lung, spleen, heart, liver and kidney, moderate levels in brain and skeletal muscle, and low in testis.

Product Info

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| Amount : | 25 µg / 100 µg |
| Purification : | Protein G Chromatography |
| Content : | 25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic. |
| Storage condition : | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles. |

Application Note

Western blot analysis: 2-4 µg/ml, Immunohistochemical analysis: 5-10 µg/ml, FACS analysis: 0.5-1 µg/10⁶ cells

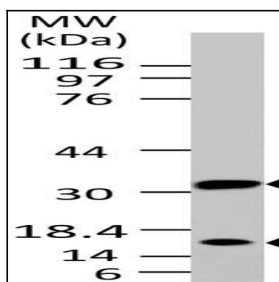


Fig-1: Western blot analysis of Caspase-3. Anti- Caspase-3 (Clone: ABM1C12) was used at 2 µg/ml on Ramos lysate.

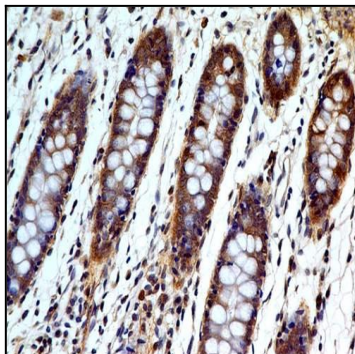


Fig-2 : Immunohistochemical analysis of Caspase-3 in human colon tissue using Caspase-3 antibody (Clone: ABM1C12) at 5 µg/ml.

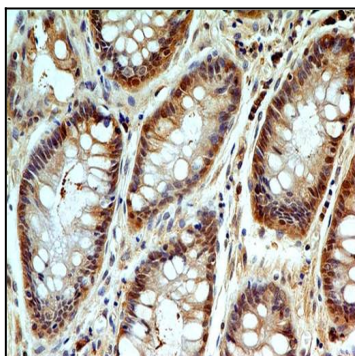


Fig-3 :Immunohistochemical analysis of Caspase-3 in adenocarcinoma of rectum using Caspase-3 antibody (Clone: ABM1C12) at 5 µg/ml.

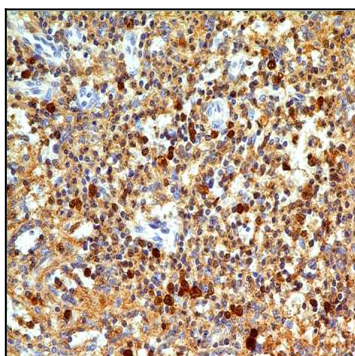


Fig-4 :Immunohistochemical analysis of Caspase-3 in human spleen tissue using Caspase-3 antibody (Clone: ABM1C12) at 5 µg/ml.

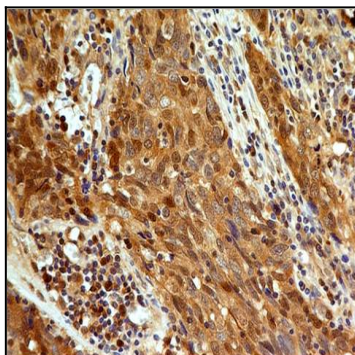


Fig-5 :Immunohistochemical analysis of Caspase-3 in squamous cell carcinoma of lungs using Caspase-3 antibody (Clone: ABM1C12) at 5 µg/ml.

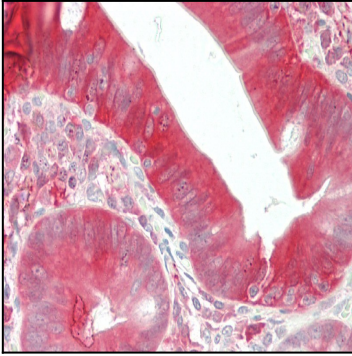


Fig-6 :Immunohistochemical analysis of Caspase-3 in human Small Intestine tissue using Caspase-3 antibody (Clone: ABM1C12) at 10 µg/ml.

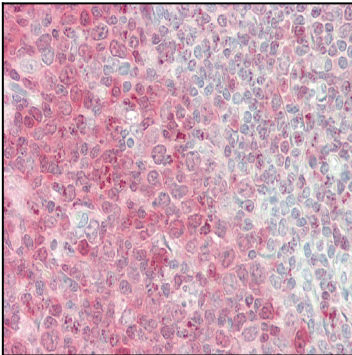


Fig-7 :Immunohistochemical analysis of Caspase-3 in human Tonsil tissue using Caspase-3 antibody (Clone: ABM1C12) at 10 µg/ml.

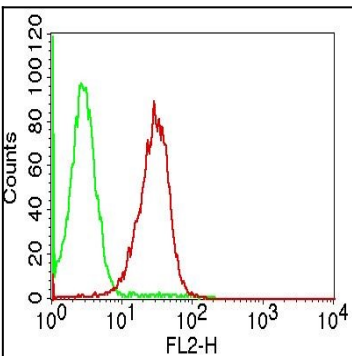


Fig-8: Intracellular FLOW cytometric analysis of Caspase 3 (Clone : ABM1C12) inon Jurkat cells using 05 µg/10⁶ cells of antibody. Goat anti-mouse PE conjugate was used as secondary antibody. Green represents isotope control (ABEOMICS), red represents anti-caspase 3 antibody.