

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ABM1C12
<b>Application :</b>	IHC,FACS,WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	CASP3
<b>Gene ID :</b>	836
<b>Uniprot ID :</b>	P42574
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Casp3, Cpp32
<b>Isotype :</b>	Mouse IgG1 Kappa
<b>Immunogen Information :</b>	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

<b>Amount :</b>	25 µg / 100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	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.
<b>Storage condition :</b>	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/10<sup>6</sup> cells

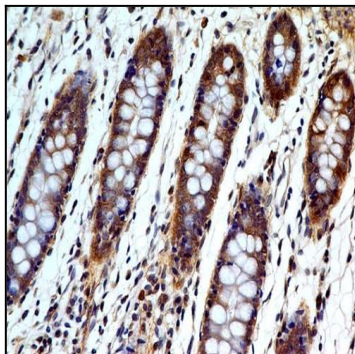


Fig 1: Immunohistochemical analysis of Caspase-3 in human colon tissue using Caspase-3 antibody (Clone: ABM1C12) at 5  $\mu\text{g/ml}$ .

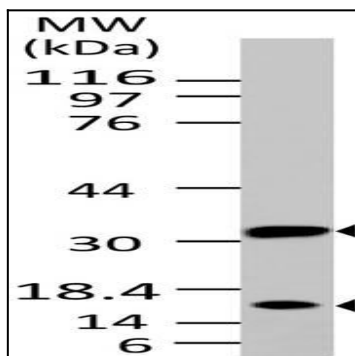


Fig.2: Western blot analysis of Caspase-3. Anti- Caspase-3 (Clone: ABM1C12) was used at 2  $\mu\text{g/ml}$  on Ramos lysate.

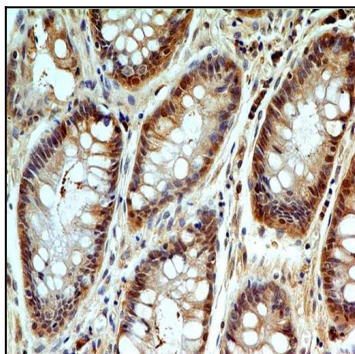


Fig-3 :Immunohistochemical analysis of Caspase-3 in adenocarcinoma of rectum using Caspase-3 antibody (Clone: ABM1C12) at 5  $\mu\text{g/ml}$ .

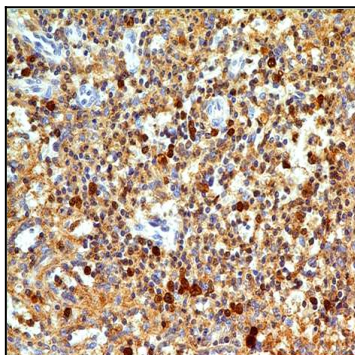


Fig-4 :Immunohistochemical analysis of Caspase-3 in human spleen tissue using Caspase-3 antibody (Clone: ABM1C12) at 5  $\mu\text{g/ml}$ .

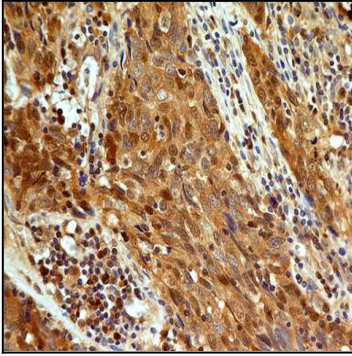


Fig-5 :Immunohistochemical analysis of Caspase-3 in squamous cell carcinoma of lungs using Caspase-3 antibody (Clone: ABM1C12) at 5  $\mu\text{g/ml}$ .

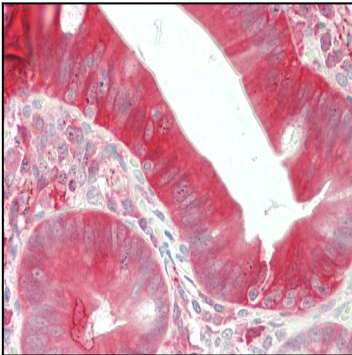


Fig-6 :Immunohistochemical analysis of Caspase-3 in human Small Intestine tissue using Caspase-3 antibody (Clone: ABM1C12) at 10  $\mu\text{g/ml}$ .

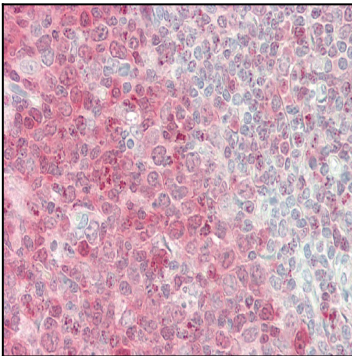


Fig-7 :Immunohistochemical analysis of Caspase-3 in human Tonsil tissue using Caspase-3 antibody (Clone: ABM1C12) at 10  $\mu\text{g/ml}$ .

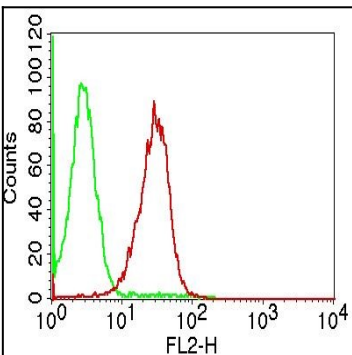


Fig-8: Intracellular FLOW cytometric analysis of Caspase 3 (Clone : ABM1C12) in Jurkat cells using 0.5  $\mu\text{g}/10^6$  cells of antibody. Goat anti-mouse PE conjugate was used as secondary antibody. Green represents isotope control (ABEOMICS), red represents anti-caspase 3 antibody.