9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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

Clonality :	Monoclonal
Clone Name :	ABM1C12
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

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/10^6 cells

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

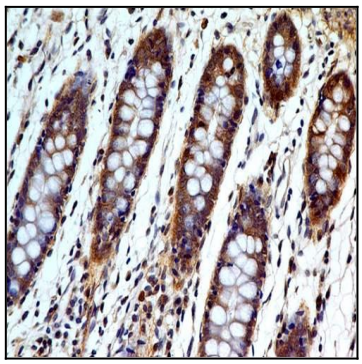

Fig 1: Immunohistochemical analysis of Caspase-3 in human colon tissue using Caspase-3 antibody (Clone: ABM1C12) at 5 µg/ml.

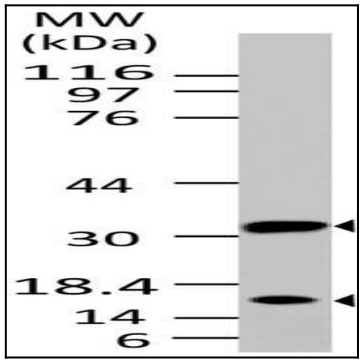

Fig.2: Western blot analysis of Caspase-3. Anti- Caspase-3 (Clone: ABM1C12) was used at 2 µg/ml on Ramos lysate.

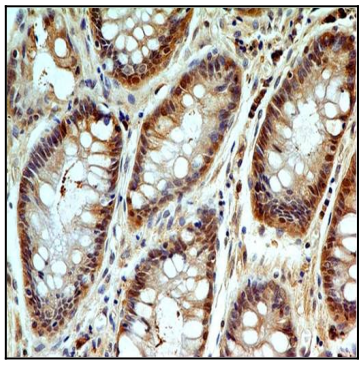

Fig-3 :Immunohistochemical analysis of Caspase-3 in adenocarcinoma of rectum using Caspase-3 antibody (Clone: ABM1C12) at 5 µg/ml.

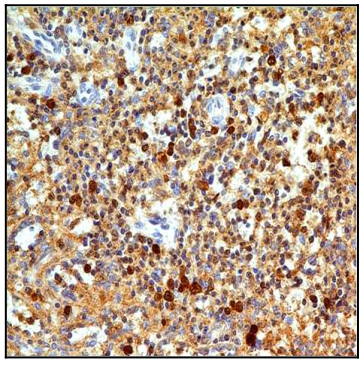

Fig-4 :Immunohistochemical analysis of Caspase-3 in human spleen tissue using Caspase-3 antibody (Clone: ABM1C12) at 5 µg/ml.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

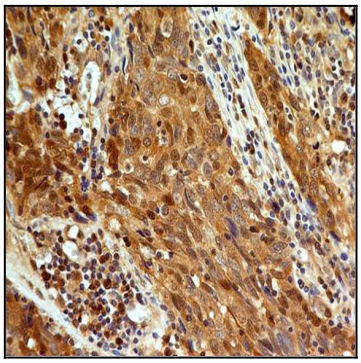

Fig-5 :Immunohistochemical analysis of Caspase-3 in squamous cell carcinoma of lungs using Caspase-3 antibody (Clone: ABM1C12) at 5 µg/ml.

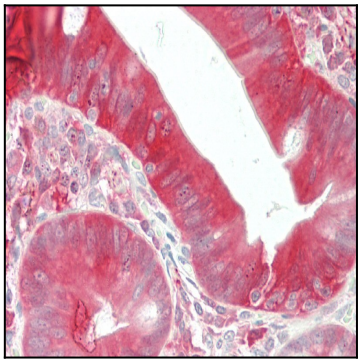

Fig-6 :Immunohistochemical analysis of Caspase-3 in human Small Intestine tissue using Caspase-3 antibody (Clone: ABM1C12) at 10 µg/ml.

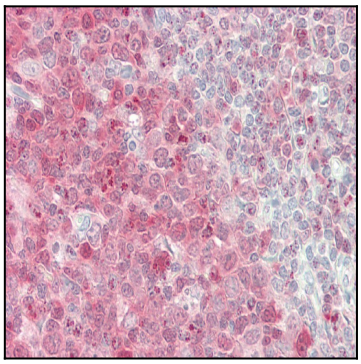

Fig-7 :Immunohistochemical analysis of Caspase-3 in human Tonsil tissue using Caspase-3 antibody (Clone: ABM1C12) at 10 µg/ml.

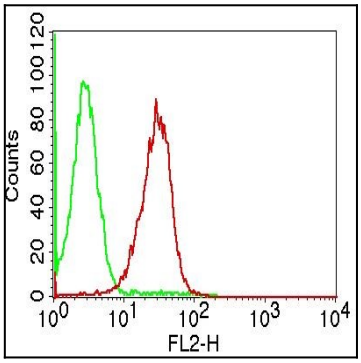

Fig-8: Intracellular FLOW cytometric analysis of Caspase 3 (Clone : ABM1C12) in Jurkat cells using 0.5 µg/10^6 cells of antibody. Goat anti-mouse PE conjugate was used as secondary antibody. Green represents isotope control (ABEOMICS), red represents anti-caspase 3 antibody.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.