

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ABM1C12
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	FITC
<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>	100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	25 µg in 125 µl/100 µg in 500 µl Tris and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months.

### Application Note

FACS: 0.5-1 µg/10<sup>6</sup>

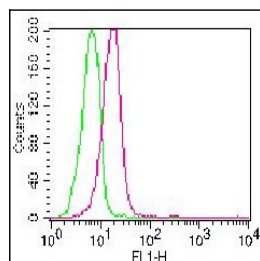


Fig-1: Intracellular FLOW cytometric analysis of Caspase 3 (Clone : ABM1C12) on Jurkat cells using 0.5 µg of antibody. Green represents FITC conjugated IgG1 isotype control (ABEOMICS), red represents FITC conjugated anti-caspase 3 (10-1003-F) antibody.