

## Mouse Monoclonal Antibody to CASP3

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| <b>Catalogue Number</b>        | sAP-1101  |
| <b>Target Molecule</b>         | <b>Name:</b> CASP3<br><b>Aliases:</b> CPP32; SCA-1; CPP32B<br><b>MW:</b> 31.6kDa<br><b>Entrez Gene ID:</b> 836  |
| <b>Description</b>             | This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein. |
| <b>Immunogen</b>               | Purified recombinant fragment of human CASP3 (AA: 29-175) expressed in E. Coli.   |
| <b>Reactive Species</b>        | Human;  |
| <b>Clone</b>                   | MM3D4D7;  |
| <b>Size and Concentration</b>  | 100µg/1mg/ml  |
| <b>Supplied as</b>             | Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide   |
| <b>Reconstitution/Storages</b> | Reconstituted with 100µl sterile DI H2O, at stored at 4°C or -20°C for short or long term storage   |
| <b>Applications</b>            | ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: ; ICC: ; FCM: 1 to 200 - 1 to 400   |
| <b>Shipping</b>                | Regular FEDEX overnight shipment (ambient temperature)  |
| <b>Reference</b>               | Cell Death Dis. 2013 Jul 11;4:e725. ; PLoS One. 2013 May 2;8(5):e62303.;  |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**