**Revision 8** 

**Cell Signaling** Store at -200 Cleaved Caspase-3 (Asp175) (5A1E) Rabbit mAb ΤΕСΗΝΟΙΟ**ΘΥ**® Orders: 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) Support: 64 Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA For Research Use Only. Not for Use in Diagnostic Procedures. Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: UniProt ID: Entrez-Gene Id: WB, W-S, IP, IHC-P, IF-H M R Mk Endogenous 17, 19 Rabbit IgG #P42574 836 IC, FC-FP **Product Usage** Application Dilution Information 1:1000 Western Blotting Simple Western™ 1:10 - 1:50 Immunoprecipitation 1.50Immunohistochemistry (Paraffin) 1:2000 Immunofluorescence (Immunocytochemistry) 1:400 - 1:1600 Flow Cytometry (Fixed/Permeabilized) 1:6400 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than Storage 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #94530. Cleaved Caspase-3 (Asp175) (5A1E) Rabbit mAb detects endogenous levels of the large fragment (17/19 Specificity / Sensitivity kDa) of activated caspase-3 resulting from cleavage adjacent to Asp175. This antibody does not recognize full-length caspase-3 or other cleaved caspases. Non-specific labeling may be observed by immunofluorescence in specific sub-types of healthy cells in fixed-frozen tissues (e.g. pancreatic alphacells). Cytoplasmic background may be observed in human and monkey samples. Species predicted to Bovine, Dog, Pig react based on 100% sequence homology Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to aminoterminal residues adjacent to Asp175 of human caspase-3. Caspase-3 (CPP-32, Apopain, Yama, SCA-1) is a critical executioner of apoptosis, as it is either partially or Background totally responsible for the proteolytic cleavage of many key proteins, such as the nuclear enzyme poly (ADP-ribose) polymerase (PARP) (1). Activation of caspase-3 requires proteolytic processing of its inactive zymogen into activated p17 and p12 fragments. Cleavage of caspase-3 requires the aspartic acid residue at the P1 position (2). 1. Fernandes-Alnemri, T. et al. (1994) J Biol Chem 269, 30761-4. **Background References** 2. Nicholson, D.W. et al. (1995) Nature 376, 37-43. **Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot). IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry Western Blot Buffer milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. **Applications Key** WB: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) **Cross-Reactivity Key** 

4/19/24, 10:33 AM Trademarks and	Cleaved Caspase-3 (Asp175) (5A1E) Rabbit mAb (#9664) Datasheet Without Images Cell Signaling Tech H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
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