

Store at
-20°C

PhosphoPlus® Caspase-3 (Cleaved, Asp175) Antibody Duet



Cell Signaling
TECHNOLOGY®

#8202

rev. 03/04/19

Support: +1-978-867-2388 (U.S.)
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Entrez-Gene ID #836
UniProt ID #P42574

For Research Use Only. Not For Use In Diagnostic Procedures.

Products Included	Product #	Quantity	Mol. Wt.	Isotype/Source
Cleaved Caspase-3 (D175) (5A1E) Rabbit mAb	9664	100 µl	17, 19 kDa	Rabbit IgG
Caspase-3 (D3R6Y) Rabbit mAb	14220	100 µl	17, 19, 35 kDa	Rabbit IgG

See www.cellsignal.com for individual component applications, species cross-reactivity, dilutions, and additional application protocols.

Description: PhosphoPlus® Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.

Background: Caspase-3 (CPP-32, Apoptain, Yama, SCA-1) is a critical executioner of apoptosis, as it is either partially or 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).

Specificity/Sensitivity: Caspase-3 (D3R6Y) Rabbit mAb recognizes endogenous levels of total caspase-3 protein. This antibody detects full-length caspase-3 as well as the large subunit (p20) of caspase-3 resulting from cleavage during apoptosis. Cleaved Caspase-3 (Asp175) (5A1) Rabbit mAb detects endogenous levels of the large fragment (17/19 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 alpha-cells). Cytoplasmic background may be observed in human and monkey samples.

Source/Purification: Monoclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues adjacent to Asp175 of human caspase-3, or with recombinant protein specific to the p20 subunit of human caspase-3 protein.caspase-3.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Background References:

- (1) Fernandes-Alnemri, T. et al. (1994) *J Biol Chem* 269, 30761-4.
- (2) Nicholson, D.W. et al. (1995) *Nature* 376, 37-43.

U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.