Revision 1

Store at -20C

#9494

Caspase-7 (C7) Mouse mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	20, 30, 35	Mouse IgG1	#P55210	840

Product Usage Information

Application	Dilution
Western Blotting	1:1000

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.

Specificity/Sensitivity

Caspase-7 (C7) Mouse mAb detects endogenous levels of caspase-7 proform as well as the 30 and 20 kDa cleaved fragments. This antibody does not cross-react with other caspases.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant human caspase-7 protein.

Background

Caspase-7 (CMH-1, Mch3, ICE-LAP3) has been identified as a major contributor to the execution of apoptosis (1-4). Caspase-7, like caspase-3, is an effector caspase that is responsible for cleaving downstream substrates such as (ADP-ribose) polymerase and PARP (1,3). During apoptosis, caspase-7 is activated through proteolytic processing by upstream caspases at Asp23, Asp198, and Asp206 to produce the mature subunits (1,3). Similar to caspase-2 and -3, caspase-7 preferentially cleaves substrates following the recognition sequence DEVD (5).

Background References

1. Fernandes-Alnemri, T. et al. (1995) *Cancer Res* 55, 6045-52.
2. Duan, H. et al. (1996) *J Biol Chem* 271, 1621-5.
3. Lippke, J.A. et al. (1996) *J Biol Chem* 271, 1825-8.
4. Cohen, G.M. (1997) *Biochem J* 326 (Pt 1), 1-16.
5. Thornberry, N.A. et al. (1997) *J Biol Chem* 272, 17907-11.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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