

#9491 Store at -20°C

Cleaved Caspase-7 (Asp198) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, W-S, IP	H M R Mk	Endogenous	20	Rabbit	#P55210	840

Product Usage Information

Application

Western Blotting
Simple Western™
Immunoprecipitation

Dilution

1:1000
1:10 - 1:50
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

Cleaved Caspase-7 (Asp198) Antibody detects endogenous levels of the large fragment of caspase-7 resulting from cleavage at aspartic acid 198. The antibody does not cross-react with full length caspase-7 or with other caspases.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues surrounding Asp198 in human caspase-7. Antibodies are purified by protein A and peptide affinity chromatography.

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

WB: Western Blotting **W-S:** Simple Western™ **IP:** Immunoprecipitation

Cross-Reactivity Key

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

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