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<b>Catalog Number:</b>	MO25036	<b>Host:</b>	Mouse
<b>Product Type:</b>	IgG <sub>1</sub> kappa	<b>Species Reactivity:</b>	Human, Mouse and Rat
<b>Immunogen Sequence:</b>	Full-length recombinant human Caspase 7 protein.	<b>Format:</b>	0.1 ml Mouse ascites with 0.1 sodium azide as a preservative.
<b>Applications:</b>	Western Blot: 1:500-1:1,000		
<b>Storage:</b>	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Store frozen. Aliquot as undiluted antisera and immediately place at -20°C. Antisera may have become trapped in top of vial during shipping. Centrifugation of vial is recommended before opening. Stable for at least 6 months at -20°C. Repeated freeze/thaw cycles compromise the integrity of the antiserum.		

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### Application Notes

In western blot analysis, a band representing caspase 7 is seen at ~ 35 kDa.

**Positive Controls:** HeLa and Jurkat whole cell extracts.

#### Description/Data:

Caspases are cysteine proteases, expressed as inactive precursors, that mediate apoptosis by proteolysis of specific substrates. Caspases have the ability to cleave after aspartic acid residues. There are two classes of caspases involved in apoptosis; initiators (activation by receptor cluster) and effectors (activation by mitochondrial permeability transition). Proapoptotic signals autocatalytically activate initiator caspases, such as Caspase-8 and Caspase-9. Activated initiator caspases then process effector caspases, such as Caspase-3 and Caspase-7, which in turn cause cell collapse.

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