

## CASP7 / Caspase-7 Antibody

Mouse Monoclonal Antibody [Clone CASP7/9054]

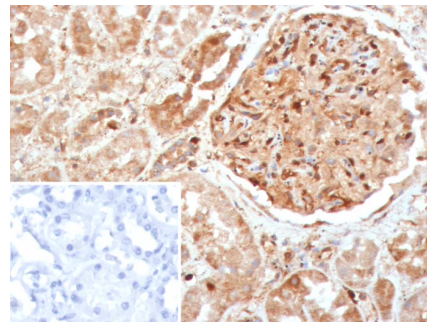
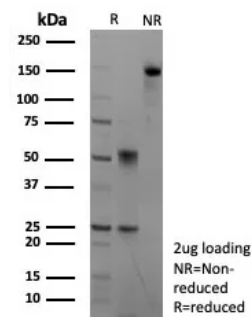
Catalog No	Format	Size
840-MSM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
840-MSM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
840-MSM4-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details	
Clone	CASP7/9054
Gene Name	CASP7
Immunogen	Recombinant fragment (around aa1-200) of human CASP7 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	28-34kDa
Cellular Localization	Cytoplasm.
Species Reactivity	Human
Positive Control	Heart HL60 or Jurkat cells. Human liver liver or kidney. spleen

\*Optimal dilution for a specific application should be determined.

### Product Images for CASP7 / Caspase-7 Antibody



SDS-PAGE Analysis Caspase 7 Mouse Monoclonal Antibody (CASP7/9054). Confirmation of Purity and Integrity of Antibody.

Formalin-fixed, paraffin-embedded human kidney stained with Caspase 7 Mouse Monoclonal Antibody (CASP7/9054). Inset: PBS instead of primary antibody; secondary only negative control.

### **Specificity & Comments**

A unique family of Cysteine proteases has been described that differs in sequence, structure and substrate specificity from any previously described protease family. This family, CED-3/caspase-1, is comprised of caspase-1, caspase-2, caspase-3, caspase-4, caspase-6, caspase-7 (also designated Mch3, ICE-LAP3 or CMH-1), caspase-9 and caspase-10. CED-3/caspase-1 family members function as key components of the apoptotic machinery and act to destroy specific target proteins which are critical to cellular longevity. Poly(ADP-ribose) polymerase plays an integral role in surveying for DNA mutations and double strand breaks. Caspase-3, caspase-7 and caspase-9, but not caspase-1, have been shown to cleave the nuclear protein PARP into an apoptotic fragment. Caspase-6, but not caspase-3, has been shown to cleave the nuclear lamins which are critical to maintaining the integrity of the nuclear envelope and cellular morphology. Caspase-10 has been shown to activate caspase-3 and caspase-7 in response to apoptotic stimuli.

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### **Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### **Supplied As**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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### **Storage and Stability**

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### **Research Areas**

Apoptosis, Autophagy, Cardiovascular, Complement System, Ovarian Cancer

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