# CASP7 / Caspase-7 Antibody

Mouse Monoclonal Antibody [Clone CASP7/9051]

| Catalog No | Format | Size |
|---|---|---|
| 840-MSM1-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 840-MSM1-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 840-MSM1-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

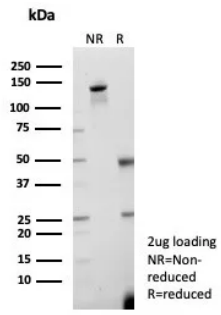
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

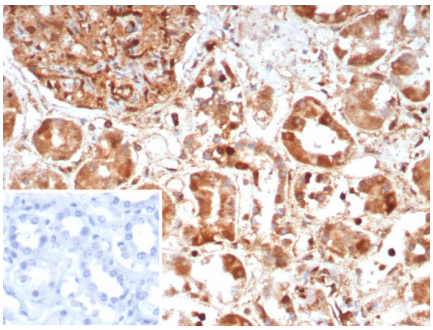
| | |
|---|---|
| **Clone** | CASP7/9051 |
| **Gene Name** | CASP7 |
| **Immunogen** | Recombinant fragment (around aa1-200) of human CASP7 protein (exact sequence is proprietary) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2b / Kappa |
| **Mol. Weight of Antigen** | 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 (CASP7/9051). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human kidney stained with Caspase 7 Mouse Monoclonal Antibody (CASP7/9051). 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.

## 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.

## Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody w2ithout azide - store at -20 to -80°C.Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Apoptosis, Autophagy, Cardiovascular, Complement System, Ovarian Cancer

## 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.