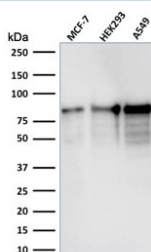


## MCM7 Antibody [clone MCM7/1467] (V3501)

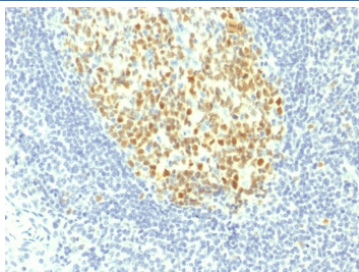
Catalog No.	Formulation	Size
V3501-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3501-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3501SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3501IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2a, kappa
<b>Clone Name</b>	MCM7/1467
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P33993
<b>Localization</b>	Nuclear
<b>Applications</b>	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This MCM7 antibody is available for research use only.

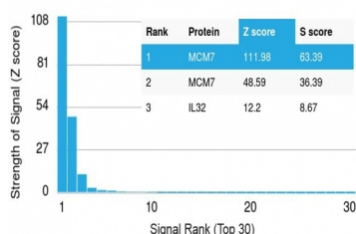


Western blot testing of human samples with MCM7 antibody (clone MCM7/1467).  
Expected molecular weight: 80-90 kDa.



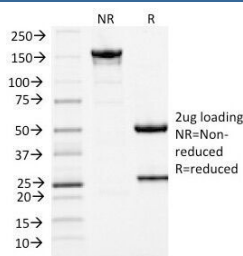
IHC testing of FFPE human tonsil with MCM7 antibody (clone MCM7/1467). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min.

Human Protein Microarray Specificity Validation



Protein array validation of the MCM7 antibody: Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using MCM7 antibody (clone MCM7/1467).

Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE Analysis of Purified, BSA-Free MCM7 Antibody (clone MCM7/1467). Confirmation of Integrity and Purity of the Antibody.

## Description

MCM7 is one of the highly conserved mini-chromosome maintenance proteins (MCM) that is essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the MCM proteins is a key component of the pre-replication complex and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumor suppressor protein RB1/RB.

## Application Notes

Titering of the MCM7 antibody may be required for optimal performance.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

A human partial recombinant protein corresponding to amino acids 195-319 was used as the immunogen for the MCM7 antibody.

## Storage

Store the MCM7 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).