



## Cat nr AE00255

## Product Datasheet

Recombinant Mouse Antibody, clone rMCM7/1468 to:

### MCM7, CDC47 homolog

Minichromosome maintenance complex component 7; Minichromosomal maintenance protein 7; DNA replication licensing factor MCM7; MCM2; P1.1-MCM3; P1CDC47; P85MCM; PNAS146; PPP1R104

Cellular localization                      Nucleus

Official Symbol (Gene)                      MCM7

GenelD                                              4176

SwissProt                                              P33993

Confirmed Applications	IHC, PA, WB
Positive controls	Tonsil, MCF7, HEK293, A549, SKBR3, HEp2
Aeonian Rating©	91

Purification	<input type="checkbox"/>	By Protein G from bioreactor concentrate
Formulation	<input type="checkbox"/>	200ug IgG/ml in PBS, 0.05% BSA, 0.05% azide (20ug or 100ug)
	<input type="checkbox"/>	1mg IgG/ml in PBS (100ug or contact us for quotation)
Amount	<input type="checkbox"/>	20ug
	<input type="checkbox"/>	100ug
Isotype		Mouse IgG1, kappa
Confirmed species reactivity		Human
Immunogen		Recombinant fragment around aa 195-319 of human MCM7 protein (exact sequence is proprietary)
Epitope		Within aa 195-319 region

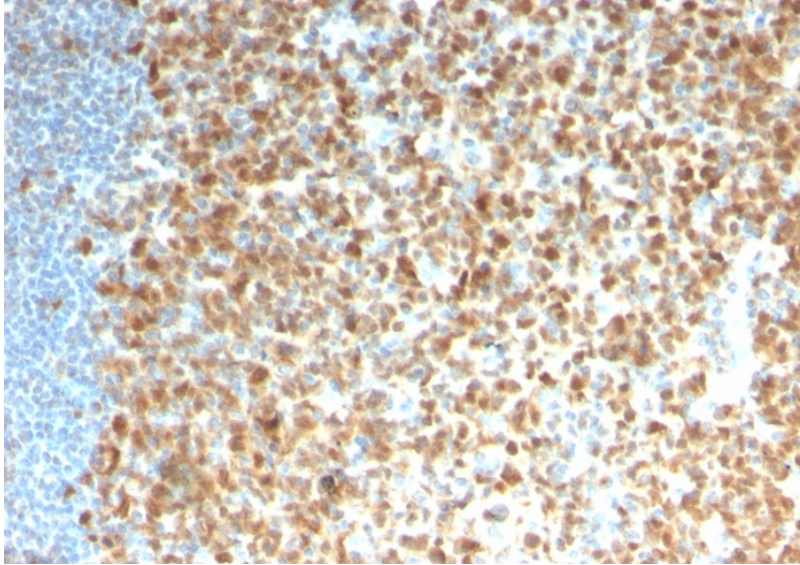
Storage instructions	Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.
Expiration	Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.
Warranty	This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.
Liability	This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.

Product performance                      see next pages

**Product data:**

**ImmunoHistoChemistry (IHC):**

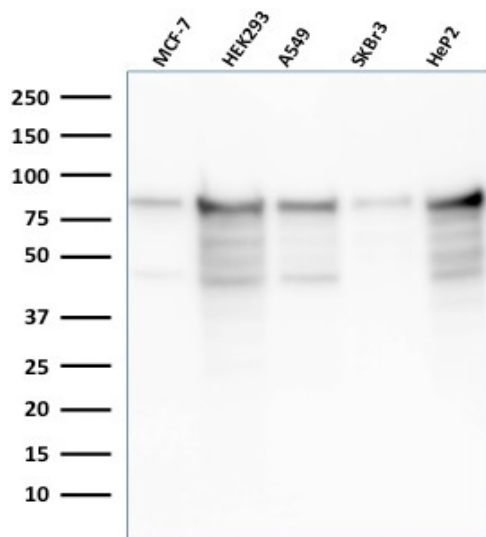
This product was successfully used to stain nuclei of germinal centre B-cells in human tonsil sections.  
Recommended concentration: 1-3ug/ml



Formaldehyde-fixed, paraffin-embedded human colon mass stained with MCM7 Mouse Recombinant Antibody AE00255 at 1-2ug/ml for 30 minutes at RT. Epitope retrieval: boiling at pH6 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.

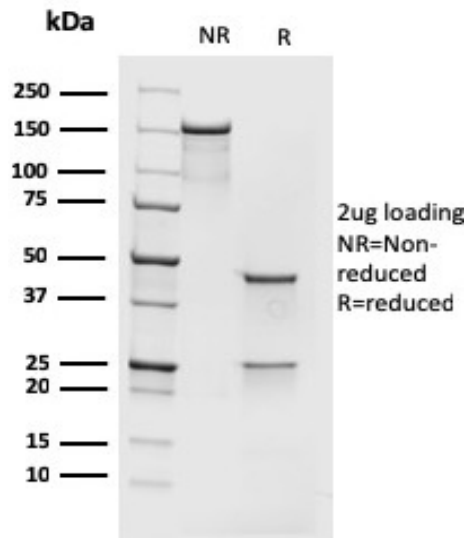
**Western Blot (WB):**

This product was successfully used to stain an approx. 85kDa band in lysates of cell lines MCF7, HEK293, A549, SKBR3 and HepG2. Recommended concentration: 1-3ug/ml



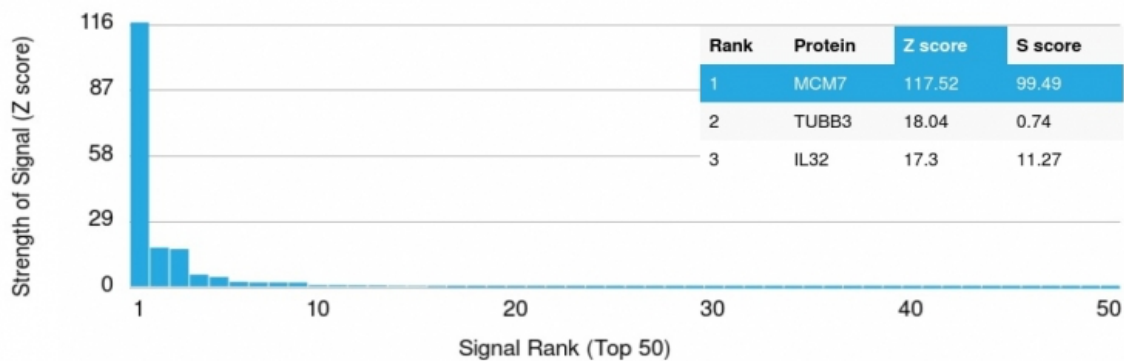
Western Blot of cell line lysates (30ug) stained with MCM7 Mouse Recombinant Antibody AE00255 at 1ug/ml (1h at ambient temp). ECL staining by HRP.

SDS-PAGE Analysis of Purified MCM7 Mouse Recombinant Antibody AE00255. Confirmation of Purity and Integrity of Antibody.



Integrity of the purified antibody AE00255 under non-reduced and reduced conditions, showing intact IgG at around 150kDa (NR) and intact heavy and light chains at 45kDa and 25kDa resp. (R).

Specificity and selectivity of AE00255 to MCM7 were tested against >19,000 full-length human proteins on a human protein array. A protein BLAST search against *H. sapiens* revealed no closely related other proteins.



Cross-reactivity assessment of MCM7 Mouse Recombinant Antibody AE00255 (1ug/ml) on CDI's Protein Array containing more than 19,000 full-length human proteins.

The Z-score represents the strength of a signal that an antibody (through a fluorophore-tagged secondary reagent) produces when binding to a particular protein on the array. Z-scores are in units of standard deviations (SD's) above the mean value of all signals generated on that array. When Z-scores are arranged in descending order, the difference between two successive values will be the S-score for the first. Thus, the S-score represents the relative specificity of the antibody to its intended target. An antibody is considered specific to its intended target, when it has an S-score of at least 2.5. For example, if an antibody binds to intended protein X with a Z-score of 43 and to the cross-reacting protein Y with a next Z-score of 14, then the S-score for the antibody to intended target X equals 29 (43-14).