

Datasheet for ABIN6940019
anti-MCM7 antibody (AA 195-319)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	MCM7
Binding Specificity:	AA 195-319
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MCM7 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human MCM7 protein fragment (aa195-319) (exact sequence is proprietary)
Clone:	MCM7-1467
Isotype:	IgG2a kappa
Purification:	Purified by Protein A/G

Target Details

Target:	MCM7
Alternative Name:	MCM7 (MCM7 Products)
Background:	The specificity of this monoclonal antibody to its intended target was validated by HuProt™

Target Details

Array, containing more than 19,000, full-length human proteins. 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.

Molecular Weight: 88kDa

Gene ID: 4176

UniProt: [P33993](#)

Pathways: [DNA Damage Repair](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Chromatin Binding](#), [Synthesis of DNA](#)

Application Details

Application Notes: Positive Control: MCF-7, HEK293, A549, Raji or Ramos cells. Tonsil.
Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

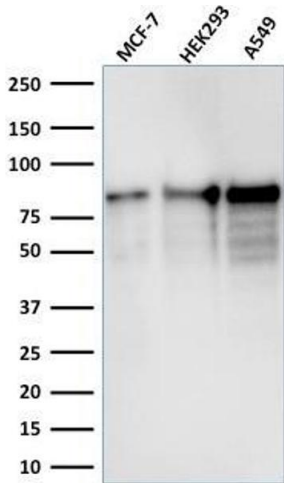
Storage: 4 °C,-80 °C

Handling

Storage Comment: 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.

Expiry Date: 24 months

Images

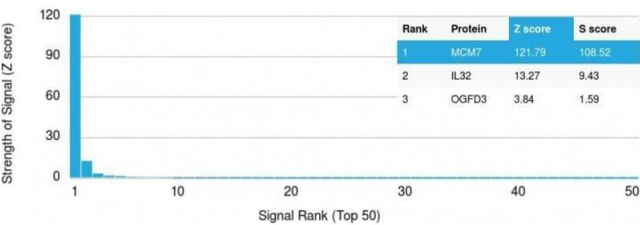


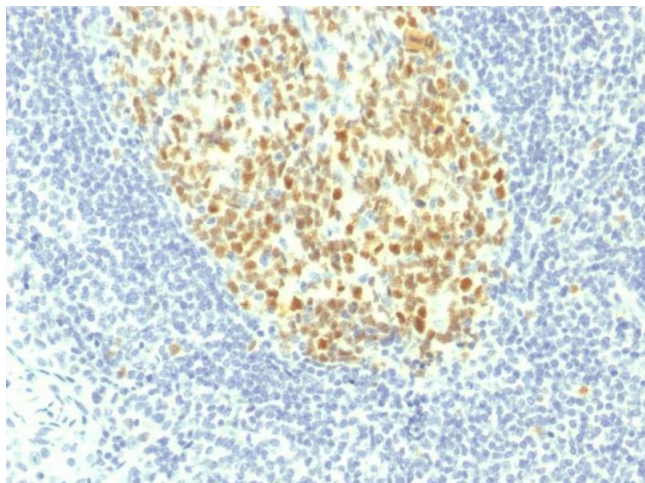
Western Blotting

Image 1. Western Blot Analysis of MCF-7, HEK-293, A549 lysate using MCM7 Mouse Monoclonal Antibody (MCM7/1467).

Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using MCM7 Mouse Monoclonal Antibody (MCM7/1467) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.





Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Tonsil stained with MCM7 Mouse Monoclonal Antibody (MCM7/1467).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6940019.