

## Product datasheet

# Anti-MCM7 antibody [47DC141 or DCS-141] (Biotin) ab79802

### 1 References

#### Overview

<b>Product name</b>	Anti-MCM7 antibody [47DC141 or DCS-141] (Biotin)
<b>Description</b>	Mouse monoclonal [47DC141 or DCS-141] to MCM7 (Biotin)
<b>Host species</b>	Mouse
<b>Conjugation</b>	Biotin
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Dog, Human, Xenopus laevis
<b>Immunogen</b>	Recombinant full length Human MCM7 protein
<b>Positive control</b>	MAD109, or PC12 cells. Tonsil or breast cancer tissue.

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: 0.2% BSA, 10mM PBS, pH 7.4
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	47DC141 or DCS-141
<b>Isotype</b>	IgG1

#### Applications

Our [Abpromise guarantee](#) covers the use of **ab79802** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		

Application	Abreviews	Notes
IP		
IHC-P		
ICC/IF		

**Application notes**

ICC/IF: Use at an assay dependent dilution.  
 IHC-P: Use at a concentration of 0.5 - 1.0 µg/ml for 30 min at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.  
 IP: Use at 2µg/mg of lysate. Native and denatured.  
 WB: Use at a concentration of 1 - 2 µg/ml for 2hrs at RT. Predicted molecular weight: 81 kDa.

Not yet tested in other applications.  
 Optimal dilutions/concentrations should be determined by the end user.

**Target**

**Function**

Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity. Required for S-phase checkpoint activation upon UV-induced damage.

**Sequence similarities**

Belongs to the MCM family.  
 Contains 1 MCM domain.

**Post-translational modifications**

Phosphorylated upon DNA damage, probably by ATM or ATR.

**Cellular localization**

Nucleus.

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