

Product datasheet

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

1 References

Overview

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

Properties

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