

# Anti-PRMT7 antibody ab126965

[1 References](#) [4 Images](#)

## Overview

<b>Product name</b>	Anti-PRMT7 antibody
<b>Description</b>	Rabbit polyclonal to PRMT7
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment, corresponding to a region within amino acids 408-665 of Human PRMT7 (Q9NVM4).
<b>Positive control</b>	PC3 whole cell lysate; Rat RT2, Hela and Mouse C2C12 xenograft tissues.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.00</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 78.99% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)</p>
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab126965 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		1/500 - 1/3000. Predicted molecular weight: 78 kDa.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### Function

Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and symmetrical dimethylarginine (sDMA), with a preference for the formation of MMA. Specifically mediates the symmetrical dimethylation of arginine residues in the small nuclear ribonucleoproteins Sm D1 (SNRPD1) and Sm D3 (SNRPD3); such methylation being required for the assembly and biogenesis of snRNP core particles. Specifically mediates the symmetric dimethylation of histone H4 'Arg-3' to form H4R3me2s. Plays a role in gene imprinting by being recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to form H4R3me2s, possibly leading to recruit DNA methyltransferases at these sites. May also play a role in embryonic stem cell (ESC) pluripotency. Also able to mediate the arginine methylation of histone H2A and myelin basic protein (MBP) in vitro; the relevance of such results is however unclear in vivo.

### Involvement in disease

Defects in PRMT7 are associated with mild intellectual disability, obesity and symmetrical shortening of the digits and posterior metacarpals and metatarsals. The phenotype is a phenocopy of pseudohypoparathyroidism (PHP).

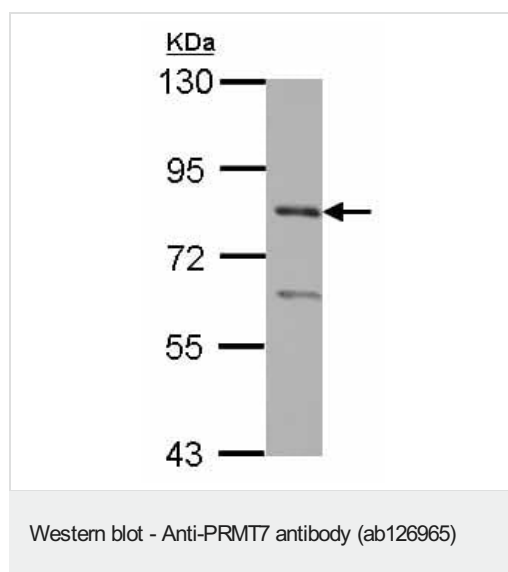
### Sequence similarities

Belongs to the class I-like SAM-binding methyltransferase superfamily. Protein arginine N-methyltransferase family. PRMT7 subfamily.  
Contains 2 SAM-dependent MTase PRMT-type domains.

### Cellular localization

Cytoplasm, cytosol. Nucleus.

## Images

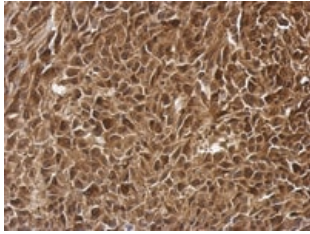


Anti-PRMT7 antibody (ab126965) at 1/2000 dilution + PC3 whole cell lysate at 30 µg

Developed using the ECL technique.

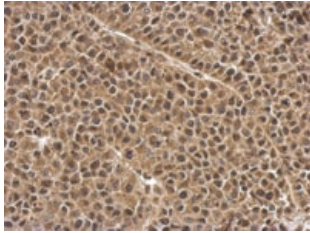
**Predicted band size:** 78 kDa

7.5% SDS PAGE



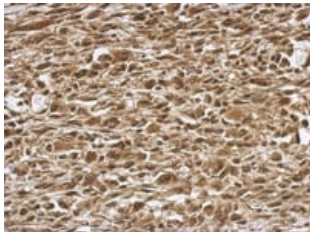
ab126965, at 1/500 dilution, staining PRMT7 in Paraffin-embedded Rat RT2 xenograft tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRMT7 antibody (ab126965)



ab126965, at 1/500 dilution, staining PRMT7 in Paraffin-embedded Human Hela xenograft tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRMT7 antibody (ab126965)



ab126965, at 1/500 dilution, staining PRMT7 in Paraffin-embedded Mouse C2C12 xenograft tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRMT7 antibody (ab126965)

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