

Datasheet for ABIN6264434
anti-PRMT7 antibody (Internal Region)

3 Images

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Overview

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|----------------------|--|
| Quantity: | 100 µL |
| Target: | PRMT7 |
| Binding Specificity: | Internal Region |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PRMT7 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC) |

Product Details

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| Immunogen: | A synthesized peptide derived from human PRMT7, corresponding to a region within the internal amino acids. |
| Isotype: | IgG |
| Specificity: | PRMT7 Antibody detects endogenous levels of total PRMT7. |
| Predicted Reactivity: | Pig,Bovine,Horse,Sheep,Rabbit |
| Purification: | The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific). |

Target Details

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| Target: | PRMT7 |
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Target Details

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| Alternative Name: | PRMT7 (PRMT7 Products) |
| Background: | <p>Description: 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.</p> <p>Gene: PRMT7</p> |
| Molecular Weight: | 78 kDa |
| Gene ID: | 54496 |
| UniProt: | Q9NVM4 |
| Pathways: | Ribonucleoprotein Complex Subunit Organization |

Application Details

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| Application Notes: | WB 1:1000-3000, IF/ICC 1:100-1:500, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000 |
| Restrictions: | For Research Use only |

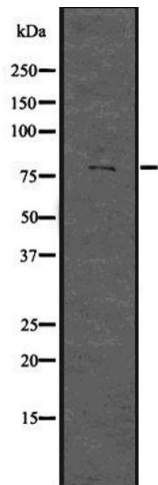
Handling

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| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol. |
| 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: | -20 °C |

Handling

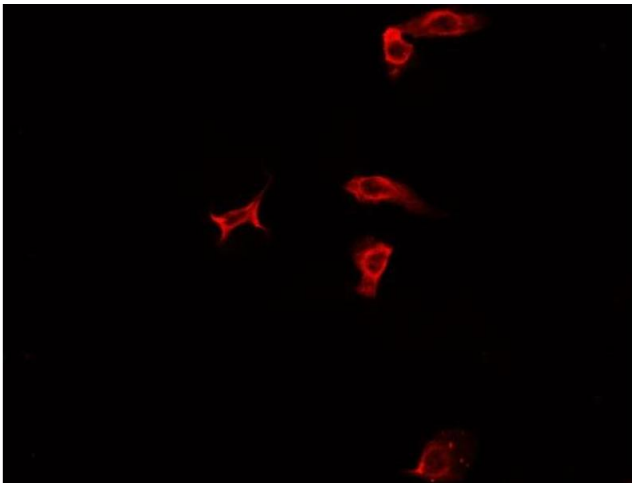
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|------------------|---|
| Storage Comment: | Store at -20 °C. Stable for 12 months from date of receipt. |
| Expiry Date: | 12 months |

Images



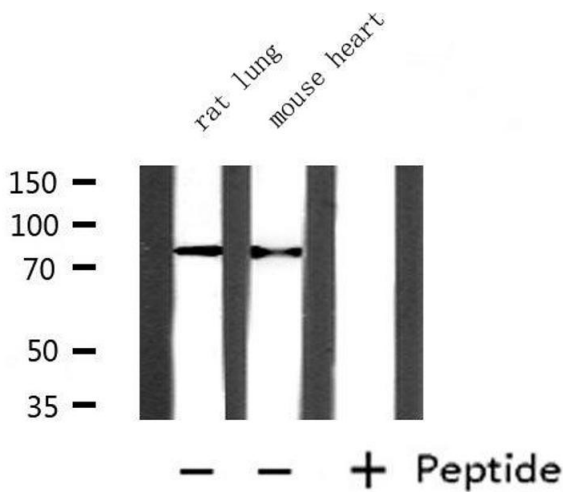
Western Blotting

Image 1. Western blot analysis of PRMT7 using K562 whole lysates.



Immunofluorescence (fixed cells)

Image 2. ABIN6277935 staining HepG2? cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody (Cat.# S0006), diluted at 1/600, was used as secondary antibody



Western Blotting

Image 3. Western blot analysis of extracts from mouse heart and rat lung, using PRMT7 Antibody.