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Datasheet for ABIN2778662

## anti-PRMT2 antibody (N-Term)

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### Overview

Quantity:	100 µL
Target:	PRMT2
Binding Specificity:	N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRMT2 antibody is un-conjugated
Application:	Western Blotting (WB), Chromatin Immunoprecipitation (ChIP)

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human PRMT2
Sequence:	ERAGCCGYIP ANHVGKHXVDE YDPEDTWQDE EYFGSYGTLK LHLEMLADQP
Predicted Reactivity:	Human: 100%, Rat: 79%
Characteristics:	This is a rabbit polyclonal antibody against PRMT2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

### Target Details

Target:	PRMT2
Alternative Name:	PRMT2 ( <a href="#">PRMT2 Products</a> )

## Target Details

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Background:	<p>The protein arginine methyltransferases (PRMTs) include a family of proteins with related putative methyltransferase domains that modify chromatin and regulate cellular transcription. PRMT2 inhibits NF-kappaB-dependent transcription and promotes apoptosis and it exerts this effect by blocking nuclear export of IkappaB-alpha through a leptomycin-sensitive pathway, increasing nuclear IkappaB-alpha and decreasing NF-kappaB DNA binding. PRMT2 also rendered cells susceptible to apoptosis by cytokines or cytotoxic drugs, likely due to its effects on NF-kappaB.</p> <p>Alias Symbols: HRMT1L1, MGC111373</p> <p>Protein Interaction Partner: FIP1L1, SPAG8, RIPK2, BAG6, RB1, HNRNPA1, E2F1, UBC, PSMB3, HHV8GK18_gp81, CPSF7, DMRTB1, HNRNPUL1, PRMT2, THRB, PGR, NCOA6, NCOA1, ESR2, RXRA, PRRC2A, ESR1, PPARG, RARA,</p> <p>Protein Size: 433</p>
Molecular Weight:	49 kDa
Gene ID:	3275
NCBI Accession:	<a href="#">NM_001535</a> , <a href="#">NP_001526</a>
UniProt:	<a href="#">P55345</a>
Pathways:	<a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Regulation of Intracellular Steroid Hormone Receptor Signaling</a> , <a href="#">Nuclear Hormone Receptor Binding</a>

## Application Details

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Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 433 AA
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

## Handling

should be handled by trained staff only.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

Product cited in: Wang, Mueller, Hertel, Cambi: "G Run-mediated recognition of proteolipid protein and DM20 5' splice sites by U1 small nuclear RNA is regulated by context and proximity to the splice site." in: **The Journal of biological chemistry**, Vol. 286, Issue 6, pp. 4059-71, (2011) ([PubMed](#)).

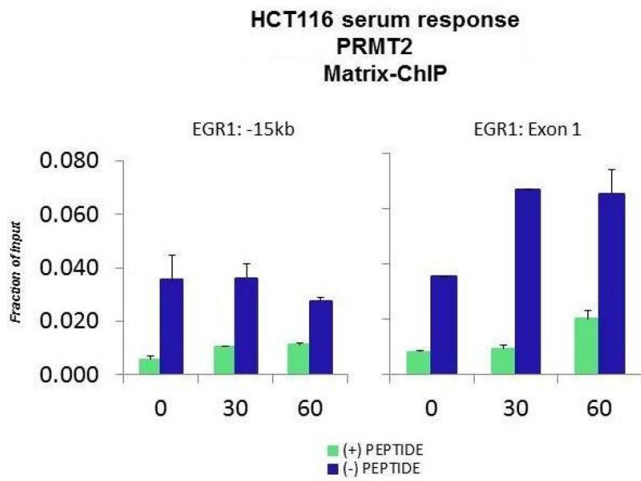
Wang, Cambi: "Heterogeneous nuclear ribonucleoproteins H and F regulate the proteolipid protein/DM20 ratio by recruiting U1 small nuclear ribonucleoprotein through a complex array of G runs." in: **The Journal of biological chemistry**, Vol. 284, Issue 17, pp. 11194-204, (2009) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** WB Suggested Anti-PRMT2 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: 293T cell lysate PRMT2 is strongly supported by BioGPS gene expression data to be expressed in Human HEK293T cells



### Chromatin Immunoprecipitation

**Image 2.** Quiescent human colon carcinoma HCT116 cultures were treated with 10% FBS for three time points (0, 15, 30min) or (0, 30, 60min) were used in Matrix-ChIP and real-time PCR assays at EGR1 gene (Exon1) and 15kb upstream site.