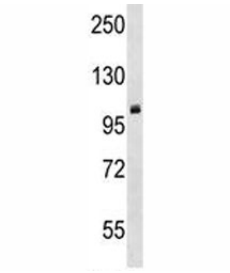
PRMT10 Antibody / PRMT9 / Protein arginine N-methyltransferase 9 (F46110)

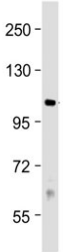
Catalog No.	Formulation	Size
F46110-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F46110-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q6P2P2
Applications	Western Blot : 1:1000
Limitations	This PRMT10 antibody is available for research use only.



Western blot testing of mouse cerebellum tissue lysate with PRMT10 antibody. Predicted molecular weight ~95 kDa.



Western blot testing of human Jurkat cell lysate with PRMT10 antibody. Predicted molecular weight ~95 kDa.

Description

Protein Arginine Methyltransferase 10 (PRMT10) is a member of the Type I PRMT family, a group of enzymes responsible for catalyzing asymmetric dimethylation of arginine residues on substrate proteins. This post-translational modification plays a critical role in diverse cellular processes including transcriptional regulation, RNA processing, signal transduction, and epigenetic control.

PRMT10 functions by transferring methyl groups from S-adenosylmethionine (SAM) to specific arginine residues, most notably on histone and non-histone proteins. Through histone methylation, PRMT10 contributes to chromatin remodeling and gene expression control. It is primarily localized in the nucleus but may also act in the cytoplasm depending on the cellular context.

Although less well-characterized than other PRMTs such as PRMT1 and PRMT4 (CARM1), PRMT10 has been implicated in key biological pathways including embryonic development, cell cycle regulation, and tissue-specific differentiation. Dysregulation of PRMT activity has been associated with various diseases, including cancer and neurodevelopmental disorders, positioning PRMT10 as a protein of growing interest in biomedical research.

Due to its regulatory roles and epigenetic significance, PRMT10 is increasingly studied as a potential biomarker and therapeutic target. Antibodies targeting PRMT10 are valuable tools for investigating protein expression, localization, and function in both normal and disease-related cellular processes.

Application Notes

Titration of the PRMT10 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 39-68 from the human protein was used as the immunogen for this PRMT10 antibody.

Storage

Aliquot the PRMT10 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.