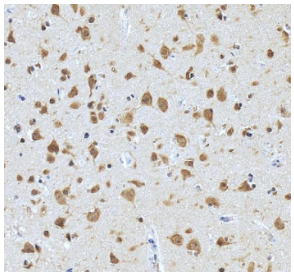
PRMT8 Antibody / Protein arginine N-methyltransferase 8 (RQ5913)

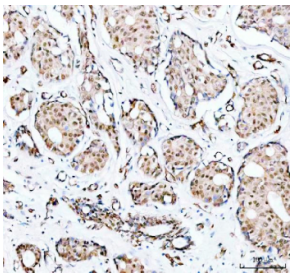
Catalog No.	Formulation	Size
RQ5913	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

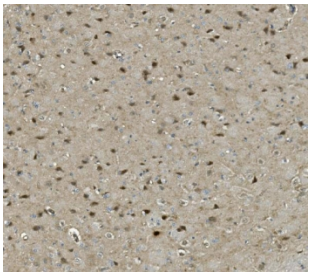
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9NR22
Localization	Nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This PRMT8 antibody is available for research use only.



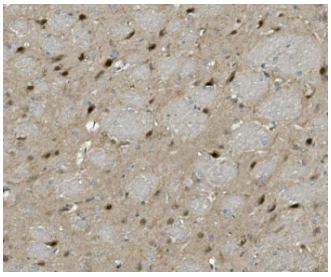
IHC staining of FFPE human brain tissue with PRMT8 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



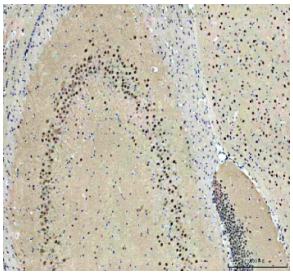
IHC staining of FFPE human breast cancer with PRMT8 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



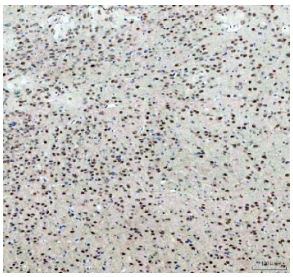
IHC staining of FFPE rat brain with PRMT8 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



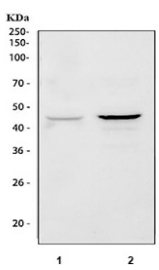
IHC staining of FFPE rat brain with PRMT8 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain with PRMT8 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse brain with PRMT8 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) rat brain and 2) mouse brain lysate with PRMT8 antibody. Predicted molecular weight ~45 kDa.

Description

Protein arginine N-methyltransferase 8, also known as PRMT8, is a member of the PRMT family that catalyzes the methylation of arginine residues on target proteins. PRMT8 is unique among the family members due to its brain-specific expression and membrane-associated localization, attributed to an N-terminal myristoylation signal. It plays important roles in synaptic signaling, neuronal development, and cytoskeletal organization.

PRMT8 shares structural and enzymatic similarities with PRMT1 but differs significantly in expression profile and subcellular targeting. Multiple isoforms of PRMT8 have been identified, resulting from alternative splicing. These isoforms may have distinct biological activities or regulatory mechanisms, highlighting the need for precise tools to study their function.

The PRMT8 antibody is a valuable tool for researchers investigating epigenetic regulation and neural-specific methylation events. A well-characterized PRMT8 antibody allows for detection of the protein in various applications, including western blot, immunohistochemistry, and immunofluorescence. NSJ Bioreagents offers a PRMT8 antibody that provides high specificity and reliable performance, making it suitable for both basic research and translational studies in neurobiology.

Application Notes

Optimal dilution of the PRMT8 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids M3-E171) was used as the immunogen for the PRMT8 antibody.

Storage

After reconstitution, the PRMT8 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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