

CoraLite® Plus 488-conjugated PRMT6 Monoclonal antibody

Catalog Number: **CL488-67981**

Basic Information

Catalog Number:

CL488-67981

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG7934

GenBank Accession Number:

BC002729

GeneID (NCBI):

55170

UNIPROT ID:

Q96LA8

Full Name:

protein arginine methyltransferase 6

Calculated MW:

42 kDa

Observed MW:

42 kDa

Purification Method:

Protein A purification

CloneNo.:

4B5A9

**Excitation/Emission maxima
wavelengths:**

493 nm / 522 nm

Applications

Tested Applications:**Species Specificity:**

Human, Mouse, Rat

Background Information

Protein arginine methyltransferase 6 (PRMT6) is a type I PRMT which is involved in epigenetic regulation of gene expression, alternative splicing, development and differentiation, DNA repair, cell proliferation and senescence, DNA methylation, mitosis, inflammation, innate antiviral immunity, spermatogenesis, transactivation of nuclear receptors and cell signaling. The human PRMT6 gene, located on Chromosome 1, encodes for the 41.9 kDa PRMT6 enzyme. PRMT6 is predominantly localized to the nucleus, in stark contrast to PRMT3 and PRMT5 which are preponderantly cytosolic, while other PRMTs are found in both nucleus and cytosol. PRMT6 is expressed in a wide range of tissues with high expression in kidney and testes. PRMT6 generates asymmetric dimethylation modifications in histone 3 at arginine 2, arginine 17 and arginine 42 (H3R2me2a, H3R17me2a and H3R42me2a) and in histone H2A at arginine 26 (H2AR26me2a) and participates in the epigenetic regulation of gene expression.

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

