



Histone Methyltransferase Set7/9 (Histone H3 Lysine 4 Specific Methyltransferase, H3 K4 HMTase, H4 Lysine-4 Specific, Histone H3 K4 Methyltransferase, Histone Lysine N-methyltransferase H3 Lysine 4 Specific SET7, FLJ21193, KIAA1717, SET 7/9, SETD7)

Catalog number

H5203-97H

Supplier

United States Biological

Diverse signal transduction pathways impinging on the N-terminal tails of histones lead to a number of post-translational modifications including acetylation, phosphorylation, poly(ADP-ribosylation), ubiquitination and methylation. These modifications play critical roles in regulating chromatin structure and gene expression. Histone methyltransferases (HMTases) selectively methylate evolutionarily conserved arginine or lysine residues, primarily in the N-terminal tails of histones H3 and H4. Set7/9 is a histone specific HMTase that methylates histone H3 lysine 4. Set7/9 transfers methyl groups to lysine 4 of histone H3 in complex with S-adenosyl-L-methionine. Human Set7/9 is a 336 amino acid protein.

Applications

Suitable for use in Western Blot. Other applications not tested.

Recommended Dilution

Optimal dilutions to be determined by the researcher.

Storage and Stability

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot Store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Immunogen

Two synthetic peptides corresponding to amino acids 131-145 ([BLAST]GEVNEDGEMTGEKIA[/BLAST]) and 336-352 ([BLAST]GYDHSPPGKSGPEAPEW[/BLAST]) of human Set7/9 were used as immunogen; GenBank Accession No. NP_085151.1. These sequences are 100% conserved between human, mouse and rat.

Formulation

Supplied as a liquid in PBS, 0.2% gelatin, 0.05% sodium azide.

Purity

Whole antisera

Specificity



Specific for Set7/9 (a histone H3 lysine 4 methyltransferase) and does not recognize PR-Set7 (a histone H4 lysine 20 methyltransferase). Species Crossreactivity: Mouse, Human

Product Type

Pab

Source

human

Isotype

IgG

Grade

Serum

Applications

WB

Crossreactivity

Hu Mo

Storage

-20°C