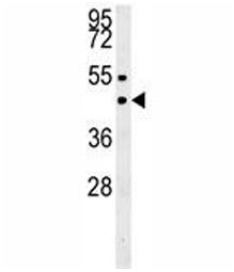
SUV39H1 Antibody (F41774)

Catalog No.	Formulation	Size
F41774-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F41774-0.08ML	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	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	O43463
Applications	Western Blot : 1:1000
Limitations	This SUV39H1 antibody is available for research use only.



SUV39H1 western blot analysis in MDA-MB435 lysate.

Description

Similar to acetylation and phosphorylation, histone methylation at the N-terminal tail has emerged as an important role in regulating chromatin dynamics and gene activity. Histone methylation occurs on arginine and lysine residues and is catalyzed by two families of proteins, the protein arginine methyltransferase family and the SET-domain-containing methyltransferase family. Five members have been identified in the arginine methyltransferase family. About 27 are grouped into the SET-domain family, and another 17 make up the PR domain family that is related to the SET domain family. The retinoblastoma protein-interacting zinc finger geneRIZ1 is a tumor suppressor gene and a FOUNDING member of the PR domain family. RIZ1 inactivation is commonly found in many types of human cancers and occurs

through loss of mRNA expression, frame shift mutation, chromosomal deletion, and missense mutation. RIZ1 is also a tumor susceptibility gene in mice. The loss of RIZ1 mRNA in human cancers was shown to associate with DNA methylation of its promoter CpG island. Methylation of the RIZ1 promoter strongly correlated with lost or decreased RIZ1 mRNA expression in breast, liver, colon, and lung cancer cell lines as well as in liver cancer tissues.

Application Notes

Titration of the SUV39H1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

N-terminal purified recombinant protein was used as the immunogen for the SUV39H1 antibody.

Storage

Aliquot the SUV39H1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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