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Datasheet for ABIN713563

**anti-SUV39H1 antibody (AA 211-310) (Biotin)**

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | SUV39H1  |
| Binding Specificity: | AA 211-310   |
| Reactivity:          | Human  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This SUV39H1 antibody is conjugated to Biotin  |
| Application:         | ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

|                       |  |
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| Immunogen:            | KLH conjugated synthetic peptide derived from human Histone-lysine N-methyltransferase SUV39H1 |
| Isotype:              | IgG  |
| Predicted Reactivity: | Human,Mouse,Rat,Dog,Cow,Pig  |
| Purification:         | Purified by Protein A.   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | SUV39H1                                      |
| Alternative Name: | SUV39H1 ( <a href="#">SUV39H1 Products</a> ) |

## Target Details

|             |  |
|-------------|--|
| Background: | <p>Synonyms: H3 K9 HMTase, H3 K9 HMTase1, H3-K9-HMTase 1, Histone H3 K9 methylation, Histone H3 Lys 9 methylation, Histone H3-K9 methyltransferase 1, Histone H3-K9 methyltransferase1, Histone lysine N methyltransferase H3 lysine 9 specic 1, Histone lysine N methyltransferase, H3 lysine 9 specic 1, Histone-lysine N-methyltransferase SUV39H1, KMT1 A, Lysine N methyltransferase 1A, Lysine N-methyltransferase 1A, MG44, mIS6, Position-effect variegation 3-9 homolog, Suvar3 9 homolog 1, Suvar3-9 homolog 1, Suppressor of variegation 3 9 homolog 1 Drosophila, Suppressor of variegation 3-9 homolog 1, SUV39 H1, SUV39H, SUV39H1, SUV91_HUMAN.</p> <p>Background: SUV39H1 is targeted to histone H3 via its interaction with RB1 and is involved in many processes, such as repression of MYOD1-stimulated differentiation, regulation of the control switch for exiting the cell cycle and entering differentiation, repression by the PML-RARA fusion protein, BMP-induced repression, repression of switch recombination to IgA and regulation of telomere length. Component of the eNoSC (energy-dependent nucleolar silencing) complex, a complex that mediates silencing of rDNA in response to intracellular energy status and acts by recruiting histone-modifying enzymes. The eNoSC complex is able to sense the energy status of cell: upon glucose starvation, elevation of NAD(+)/NADP(+) ratio activates SIRT1, leading to histone H3 deacetylation followed by dimethylation of H3 at 'Lys-9' (H3K9me2) by SUV39H1 and the formation of silent chromatin in the rDNA locus.</p> |
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| Gene ID: | 6839 |
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## Application Details

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| Application Notes: | IHC-P 1:200-400<br>IHC-F 1:100-500 |
| Restrictions:      | For Research Use only              |

## Handling

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|--------------------|--|
| Format:            | Liquid   |
| Concentration:     | 1 µg/µL  |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.        |
| Preservative:      | ProClin  |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |

## Handling

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| Storage: | -20 °C |
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|                  |                               |
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| Storage Comment: | Store at -20°C for 12 months. |
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|              |           |
|--------------|-----------|
| Expiry Date: | 12 months |
|--------------|-----------|