



Anti-HRX (Histone-lysine N-methyltransferase HRX) Phospho-Polyclonal Antibody

Category: Phospho-Polyclonal Antibody

Catalog #: S516 Phospho-AB3L121(Phospho Site: 516S)

Antigen Synonym: ALL1, CXXC7(CXXC-type zinc finger protein 7), HTRX, KMT2A, TRX1, MLL, Zinc finger protein HRX, Trithorax-like protein; Lysine N-methyltransferase 2A

Species Reactivity: Human

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to near N-terminal residues of human HRX (Histone-lysine N-methyltransferase HRX)

Description: HRX (Histone-lysine N-methyltransferase HRX) functions as histone methyltransferase. HRX methylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. HRX promotes PPP1R15A-induced apoptosis. HRX interacts with SBF1 and PPP1R15A. HRX is a component of the MLL complex, at least composed of MLL, ASH2L, RBBP5, DPY30, WDR5, MEN1, HCFC1 and HCFC2. Chromosomal aberrations involving MLL are a cause of acute leukemias. A chromosomal aberration involving MLL may be a cause of chronic neutrophilic leukemia. HRX belongs to the histone-lysine methyltransferase family and TRX/MLL subfamily.

Reference:

Tkachuk, D.C., et al, *Cell* 71 (4), 691-700 (1992)
Nilson, I., et al, *Br. J. Haematol.* 93 (4), 966-972 (1996)
Yamamoto, K., et al, *Oncogene* 8 (10), 2617-2625 (1993)
Gu, Y., et al, *Cell* 71 (4), 701-708 (1992)
Djabali, M., et al, *Nat. Genet.* 2 (2), 113-118 (1992)
Gu, Y., et al, *Cancer Res.* 54 (9), 2327-2330 (1994)
Mbangkollo, D., et al, *DNA Cell Biol.* 14 (6), 475-483 (1995)

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