Datasheet for ABIN6243263

anti-MLL2 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	MLL2
Binding Specificity:	AA 4980-5009, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MLL2 antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Western Blotting (WB)

Product Details

Immunogen:	This MLL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 4980-5009 amino acids from the C-terminal region of human MLL2.
Clone:	RB1919-1920
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	MLL2
Alternative Name:	MLL2 (MLL2 Products)
Background:	The SET domain is a conserved C-terminal domain that characterizes proteins of the MLL

Target Details

	family, including MLL2. The MLL SET domain is a histone H3 Lys4 (K4)-specific methyltransferase whose activity is stimulated with acetylated H3 peptides. The gene for MLL2 encodes a 5,262-amino acid protein containing a SET domain, 5 PHD fingers, potential zinc fingers, and a long run of glutamines interrupted by hydrophobic residues (mostly leucine). They also detected an alternatively spliced form encoding 4,957 amino acids and lacking an N-terminal zinc finger and PHD finger. By analysis of rodent/human hybrid cells and analysis of the Genebridge radiation hybrid panel, they mapped the gene to the 12p13.1-qter region. The 12q12-q13 region is involved in duplications and translocations associated with cancer. By database searching, Karlin et al. (2002) identified 192 human protein sequences that have multiple amino acid runs, many of which are associated with disease, including cancer. Karlin et al. (2002) found that a key aspect of 82 of these protein sequences is their role in transcription, translation, and developmental regulation. MLL2 is a striking example of proteins with multiple amino acid runs, with 22 glutamine runsGenes encoding a significant number of long amino acid runs are potentially associated with diseases, such as cancer.
Molecular Weight:	593389
NCBI Accession:	NP_003473
UniProt:	O14686
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Warburg Effect

Application Details

Application Notes:	WB: 1:80000. WB: 1:27000. IHC-P-Leica: 1:500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

Handling

Expiry Date:	6 months

Publications

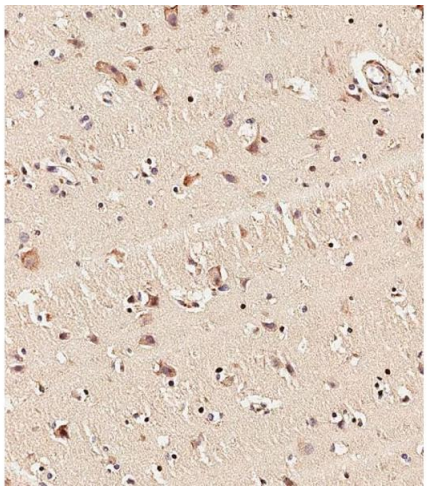
Product cited in:

Kim, Sharma, Dhar, Lee, Gu, Chan, Lin, Lee: "UTX and MLL4 coordinately regulate transcriptional programs for cell proliferation and invasiveness in breast cancer cells." in: **Cancer research**, Vol. 74, Issue 6, pp. 1705-17, (2014) (PubMed).

Bhan, Hussain, Ansari, Bobzean, Perrotti, Mandal: "Bisphenol-A and diethylstilbestrol exposure induces the expression of breast cancer associated long noncoding RNA HOTAIR in vitro and in vivo." in: **The Journal of steroid biochemistry and molecular biology**, Vol. 141, pp. 160-70, (2014) (PubMed).

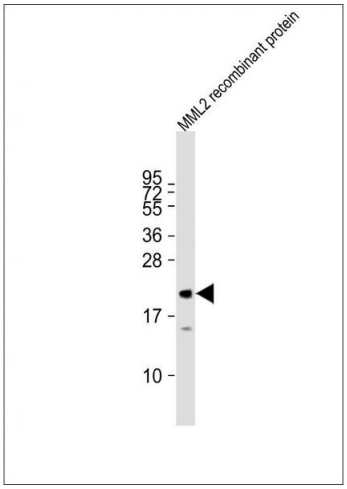
Dhar, Lee, Kan, Voigt, Ma, Shi, Reinberg, Lee: "Trans-tail regulation of MLL4-catalyzed H3K4 methylation by H4R3 symmetric dimethylation is mediated by a tandem PHD of MLL4." in: **Genes & development**, Vol. 26, Issue 24, pp. 2749-62, (2012) (PubMed).

Images



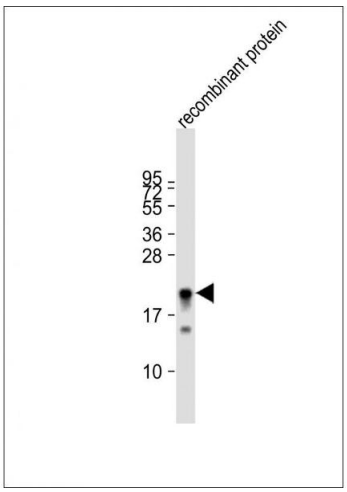
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of paraffin-embedded Human brain tissue using (ABIN6243263 and ABIN6578971) performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH 9. 0). Samples were incubated with primary Antibody (1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Western Blotting

Image 2. Anti-MLL2 Antibody at 1:27000 dilution + HL2 recombinant protein Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 12 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 3. Anti-MLL2 Antibody at 1:80000 dilution + recombinant protein whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 593 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.