

Goat Anti-CLLD8 / SETDB2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1252a**Specification**

Goat Anti-CLLD8 / SETDB2 Antibody - Product Information

Application	WB, Pep-ELISA
Primary Accession	Q96T68
Other Accession	NP_001153780 , 83852
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	81894

Goat Anti-CLLD8 / SETDB2 Antibody - Additional Information**Gene ID** 83852**Other Names**

Histone-lysine N-methyltransferase SETDB2, 2.1.1.43, Chronic lymphocytic leukemia deletion region gene 8 protein, Lysine N-methyltransferase 1F, SET domain bifurcated 2, SETDB2, C13orf4, CLLD8, KMT1F

Dilution

WB~~1:1000
Pep-ELISA~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-CLLD8 / SETDB2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-CLLD8 / SETDB2 Antibody - Protein Information**Name** SETDB2**Synonyms** C13orf4, CLLD8, KMT1F

Function

Histone methyltransferase involved in left-right axis specification in early development and mitosis. Specifically trimethylates 'Lys-9' of histone H3 (H3K9me3). H3K9me3 is a specific tag for epigenetic transcriptional repression that recruits HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Contributes to H3K9me3 in both the interspersed repetitive elements and centromere-associated repeats. Plays a role in chromosome condensation and segregation during mitosis.

Cellular Location

Nucleus. Chromosome

Tissue Location

Ubiquitous. Highest expression in heart, testis and ovary

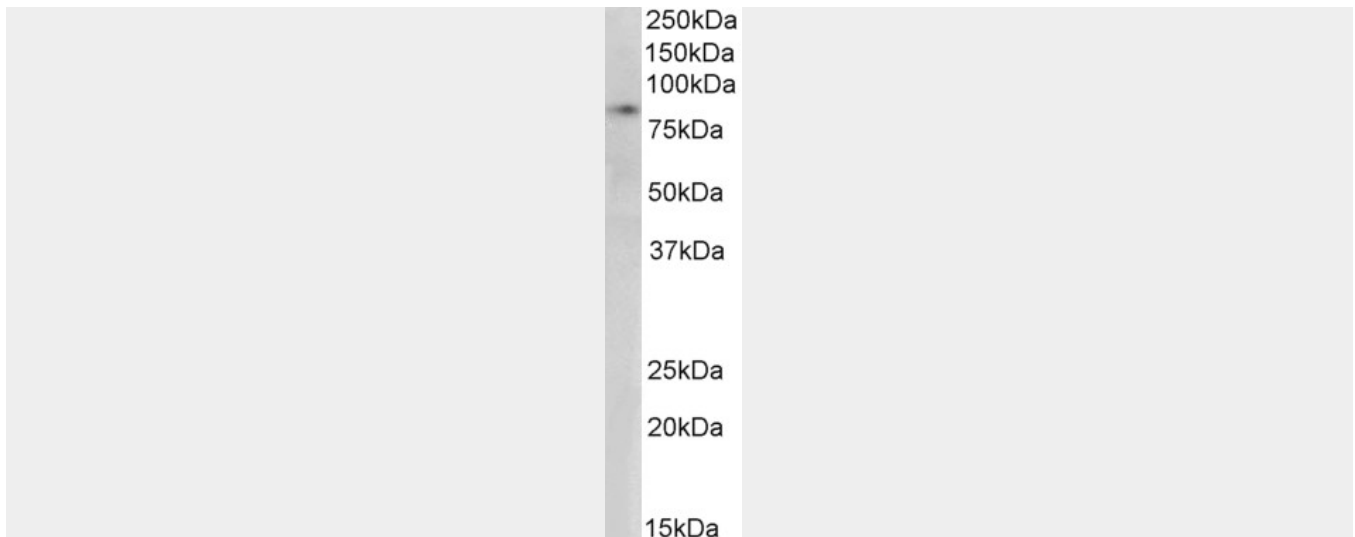
Goat Anti-CLLD8 / SETDB2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-CLLD8 / SETDB2 Antibody - Images

AF1252a (1.5 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB05724 (0.3µg/ml) staining of Nuclear HeLa lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

Goat Anti-CLLD8 / SETDB2 Antibody - Background

Proteins that contain a SET domain, such as SETDB2, modulate gene expression epigenetically through histone H3 (see MIM 601128) methylation. SETDB2 is likely a histone H3 methyltransferase, as it contains both the active site and flanking cysteine residues required for catalytic activity (Zhang et al., 2003 [PubMed 12754510]).

Goat Anti-CLLD8 / SETDB2 Antibody - References

CLLD8/KMT1F is a lysine methyltransferase that is important for chromosome segregation.

Falandry C, et al. J Biol Chem, 2010 Jun 25. PMID 20404330.

A multi-centre study of candidate genes for wheeze and allergy: the International Study of Asthma and Allergies in Childhood Phase 2. Genuneit J, et al. Clin Exp Allergy, 2009 Dec. PMID 20085599.

Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

The DNA sequence and analysis of human chromosome 13. Dunham A, et al. Nature, 2004 Apr 1. PMID 15057823.