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anti-CDYL antibody (N-Term)





Publication



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Overview	
Quantity:	100 μL
Target:	CDYL
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Horse, Rabbit, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDYL antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)
Product Details	
Immunogen:	The immunogen is a synthetic peptide directed towards the n terminal region of human CDYL
Sequence:	YIHDFNRRHT EKQKESTLTR TNRTSPNNAR KQISRSTNSN FSKTSPKALV
Predicted Reactivity:	Cow: 93%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 79%, Rabbit: 93%, Rat: 86%
Characteristics:	This is a rabbit polyclonal antibody against CDYL. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified
Target Details	
Target:	CDYL

Target Details

Alternative Name:	CDYL (CDYL Products)
Background:	CDYL acts as repressor of transcription. CDYL has histone acetyltransferase activity, with a preference for histone H4.Chromodomain Y is a primate-specific Y-chromosomal gene family
	expressed exclusively in the testis and implicated in infertility. Although the Y-linked genes are
	testis-specific, this autosomal gene is ubiquitously expressed. The Y-linked genes arose by
	retrotransposition of an mRNA from this gene, followed by amplification of the retroposed
	gene. Proteins encoded by this gene superfamily possess a chromodomain, a motif implicated
	in chromatin binding and gene suppression, and a catalytic domain believed to be involved in
	histone acetylation. Multiple proteins are encoded by transcript variants of this gene.
	Alias Symbols: CDYL1, DKFZP586C1622, MGC131936
	Protein Interaction Partner: UBC, HECW2, HDAC2, HDAC1, MIER1, MIER2, EHMT2, RBBP4, MYC
	SUZ12, EZH2, CTBP1, WIZ, ZNF644, SETDB1, SMARCB1, SMARCA4, REST, HIST1H3A, HTRA1,
	Protein Size: 544
Molecular Weight:	60 kDa
Gene ID:	9425
NCBI Accession:	NM_004824, NP_004815
UniProt:	Q9Y232
Application Details	
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 544 AA
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %
	sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

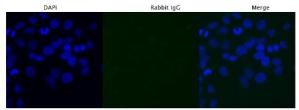
Publications

Product cited in:

Clayton, Daley, MacDonald, Fernandez-Vizarra, Bottegoni, ONeil, Major, Griffin, Zhuang, Adewoye, Woolcock, Jones, Goodyear, Elmesmari, Filer, Tennant, Alivernini, Buckley, Pitceathly et al.: "Inflammation causes remodeling of mitochondrial cytochrome c oxidase mediated by the bifunctional gene C15orf48. ..." in: **Science advances**, Vol. 7, Issue 50, pp. eabl5182, (2021) (PubMed).

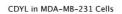
Images

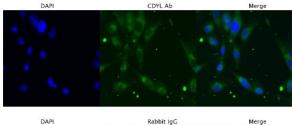
CDYL in HeLa Cells DAPI CDYL Ab Merge

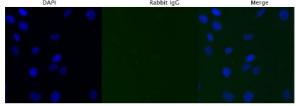


Immunofluorescence

Image 1. Sample Type: HeLa Primary Antibody Dilution: 4 ug/ml Secondary Antibody: Anti-rabbit Alexa 546 Secondary Antibody Dilution: 2 ug/ml Gene Name: CDYL

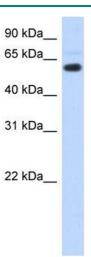






Immunofluorescence

Image 2. Sample Type : MD MB231 Primary Antibody Dilution: 4 ug/ml Secondary Antibody : Anti-rabbit Alexa 546 Secondary Antibody Dilution: 2 ug/ml Gene Name : CDYL



Western Blotting

Image 3. WB Suggested Anti-CDYL Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: Transfected 293T