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SETDB1 Protein (DYKDDDDK Tag)

2 Images



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Overview	
Quantity:	20 μg
Target:	SETDB1
Origin:	Human
Source:	Baculovirus
Protein Type:	Recombinant
Purification tag / Conjugate:	This SETDB1 protein is labelled with DYKDDDDK Tag.
Application:	Enzyme Activity Assay (EAA), Screening Assay (ScA)
Product Details	
Characteristics:	Recombinant SETDB1 (accession number NP_001138887.1) was expressed in Sf9 cells and
	contains an N-terminal FLAG tag with an observed molecular weight of 145 kDa.

Target Details

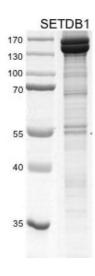
CETDD1

l arget:	SEIDRI
Alternative Name:	SETDB1 (SETDB1 Products)
Background:	SETDB1 (SET Domain, Bifurcated 1) is a histone methyltransferase that methylates histone H3
	at lysine 9. H3K9 methylation is associated with transcriptional repression and gene silencing
	through recruitment of HP1 proteins to methylated histones. H3K9 trimethylation is
	coordinated with DNA methylation, most likely through formation of a complex with MBD1 and
	ATF7IP that leads to transcriptional repression. SETDB1 activity is dependent on MBD1 and is
	heritably maintained through DNA replication by being recruited by CAF-1. SETDB1 is targeted
	to histone H3 by TRIM28, a factor recruited by KRAB zinc-finger proteins. Aberrant SETDB1

Target Details

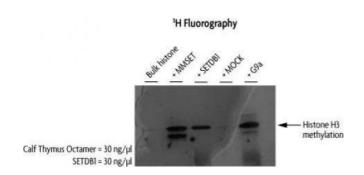
	function is associated with the pathogenesis of Huntington Disease.
Molecular Weight:	145 kDa
Application Details	
Application Notes:	Recombinant SETDB1 is suitable for use in the study of enzyme kinetics, inhibitor screening,
	and selectivity profiling. Specific Activity: H3K9me3 methyltransferase. HMT Assay Conditions:
	50 mM TrisCl, pH 8.6, 0.02 % Triton X-100, 2 mM MgCl2, 1 mM TCEP, 100 μM SAM, 30 ng/μl
	Calf Thymus Histone Octamer, 30 ng/µl Recombinant SETDB1 protein at 2 hours at room
	temperature. Activity was detected by fluorography.
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Storage:	-80 °C
Storage Comment:	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation.

Images



Western Blotting

Image 1. Recombinant SETDB1 protein gel. SETDB1 protein was run on an SDS-PAGE gel and stained with Coomassie blue.



Western Blotting

Image 2. SETDB1 activity assay. HMT assay measuring the activity of Recombinant SETDB1. Activity was detected by fluorography.