antibodies

Datasheet for ABIN3131783 SUV39H1 Protein (AA 1-412) (His tag)





Overview

Quantity:	1 mg
Target:	SUV39H1
Protein Characteristics:	AA 1-412
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SUV39H1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MAENLKGCSV CCKSSWNQLQ DLCRLAKLSC PALGVSKKNL YDFEVEYLCD YKKIREQEYY
	LVKWRGYPDS ENTWEPRQNL KCIRVLKQFH KDLERELVRR HRRSKPPRHL DPNLANYLVQ
	KAKQRRALQR WEQELNAKRS HLGRITVENE VDLDGPPRSF VYINEYRVGE GITLNQVAVG
	CECQDCLLAP TGGCCPGASL HKFAYNDQGQ VRLKAGQPIY ECNSRCCCGY DCPNRVVQKG
	IRYDLCIFRT NDGRGWGVRT LEKIRKNSFV MEYVGEIITS EEAERRGQIY DRQGATYLFD
	LDYVEDVYTV DAAYYGNISH FVNHSCDPNL QVYNVFIDNL DERLPRIAFF ATRTIWAGEE
	LTFDYNMQVD PVDMESTRMD SNFGLAGLPG SPKKRVRIEC KCGTTACRKY LF
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Suv39h1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

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d design (Gene synthesis).
ill be made for the first time for your order. Our
e a correctly folded protein.
order proteins in comparison to ordering custom
there is no financial obligation in case the protein
be expressed or purified we do not charge anything
performed steps in the expression process for
for the expression plasmid, the first expression
ou will only pay upon receival of the correctly
end you can rest assured that our experienced
re that you receive the protein you ordered.
ns is measured using the absorbance at 280nm.
n several dilutions and is measured against its
d using its specific absorption coefficient. We use
e absorption coefficient of each protein.
n baculovirus infected SF9 insect cells:
rified from the cleared cell lysate using three
eld, EDTA resistant, or DTT resistant. Eluate
rification are subjected to second purification step
luate fractions are analyzed by SDS-PAGE and
lusion Chromatography and Western Blot.

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Target Details	
Background:	Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3 using
	monomethylated H3 'Lys-9' as substrate. H3 'Lys-9' trimethylation represents a specific tag for
	epigenetic transcriptional repression by recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins to
	methylated histones. Mainly functions in heterochromatin regions, thereby playing a central role
	in the establishment of constitutive heterochromatin at pericentric and telomere regions. H3
	'Lys-9' trimethylation is also required to direct DNA methylation at pericentric repeats. SUV39H1
	is targeted to histone H3 via its interaction with RB1 and is involved in many processes, such as
	repression of MYOD1-stimulated differentiation, regulation of the control switch for exiting the
	cell cycle and entering differentiation, repression by the PML-RARA fusion protein, BMP-induced
	repression, repression of switch recombination to IgA and regulation of telomere length.
	Component of the eNoSC (energy-dependent nucleolar silencing) complex, a complex that
	mediates silencing of rDNA in response to intracellular energy status and acts by recruiting
	histone-modifying enzymes. The eNoSC complex is able to sense the energy status of cell:
	upon glucose starvation, elevation of NAD(+)/NADP(+) ratio activates SIRT1, leading to histone
	H3 deacetylation followed by dimethylation of H3 at 'Lys-9' (H3K9me2) by SUV39H1 and the
	formation of silent chromatin in the rDNA locus. Recruited by the PER complex to the E-box
	elements of the circadian target genes such as PER2 itself or PER1, contributes to the
	conversion of local chromatin to a heterochromatin-like repressive state through H3 'Lys-9'
	trimethylation. {ECO:0000269 PubMed:11701123, ECO:0000269 PubMed:12867029,
	ECO:0000269 PubMed:14690609, ECO:0000269 PubMed:14690610,
	ECO:0000269 PubMed:14702045, ECO:0000269 PubMed:18004385,
	ECO:0000269 PubMed:24413057}.
Molecular Weight:	48.7 kDa Including tag.
UniProt:	054864
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
	though.
Comment:	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher

Restrictions:

For Research Use only

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options with you in detail to assure that you receive your protein of interest.

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

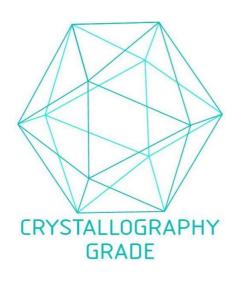


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process