Datasheet for ABIN6972699

anti-SETD8 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	SETD8
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	This SET8 / PR-SET7 antibody was raised against a peptide corresponding to amino acids within the N-terminal half of human SETD8.
Isotype:	IgG
Characteristics:	SET8 (SET-domain containing protein 8, PR-SET7, SETD8, KMT5A) is a SET domain-containing histone methyltransferase that specifically monomethylates histone H4 Lys20. H4 Lys20 monomethylation is enriched during mitosis and is associated with transcriptional repression. SET8 mainly functions in euchromatic regions, playing a role in gene silencing. SET8 knockout is homozyhgous lethal in mice and its function is required for cell cycle progression and cell proliferation. SET8 is required for proper chromosome condensation during interphase and chromosome segregation during mitosis. SET8 is also involved in DNA damage repair, as cells lacking SET8 function accumulate massive amounts of DNA damage. SET8 has been found to methylate p53 at Lys382, indicating a potential mechanism for SET8s role in the DNA damage repair pathway. SET8 / PR-SET7 antibody (pAb) was raised in a Rabbit host. It has been

Product Details

	validated for use in Western blot, it has been shown to react with Human samples.
Purification:	Affinity Purified

Target Details

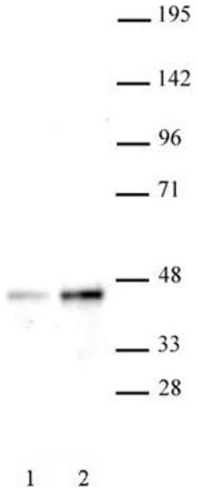
Target:	SETD8
Alternative Name:	SET8 / PR-SET7 (SETD8 Products)
Molecular Weight:	45 kDa
NCBI Accession:	NP_065115

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Buffer:	Purified IgG in 70 mM Tris (pH 8), 105 mM NaCl, 31 mM glycine, 0.07 mM EDTA, 30 % glycerol and 0.035 % 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:	-20 °C
Storage Comment:	Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



Western Blotting

Image 1. Western blot of SET8 / PR-SET7 antibody. Nuclear extract of HeLa cells (20 µg per lane) probed with SET8 / PR-SET7 antibody (1:500). Lane 1: No treatment. Lane 2: Cells treated with colcemid.