Data Sheet (Cat.No.TMAB-06864)

Anti-H3-K4-HMTase SETD7 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,Dog,Pig,Cow,Horse)
Molecular Weight:	Theoretical: 41 kDa. Actual: 47 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lane 1: Hela (Human) Cell Lysate at 30 µg Lane 2: U87MG (Human) Cell Lysate at 30 µg Lane 3: U251 (Human) Cell Lysate at 30 µg Lane 4: Huvec (Human) Cell Lysate at 30 µg Primary: Anti-H3-K4-HMTase SETD7 (TMAB-06864) IgG at 1/20000 dilution Predicted band size: 49 kD Observed band size: 47 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human SETD7
Antigen Species:	Human
Gene ID:	80854
Uniprot ID:	Q8WTS6

Research Background

Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes such as collagenase or insulin. Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription. Has also methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins. Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II. Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation. Also able to demethylated 'Lys-372' of p53/TP53 in vitro.

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