

SETD7 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2015
Host	Mouse
Isotype	Mouse IgG2a
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human SETD7 (AA: 107-366) expressed in E. Coli.
Mol wt	40.7kDa
Species reactivity	Human,Rat,Monkey
Clonality	Monoclonal
Recommended application	WB,FCM
Concentration	N/A
Full name	N/A
Synonyms	KMT7;SET7;SET9;SET7/9

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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.

Recommended Dilution

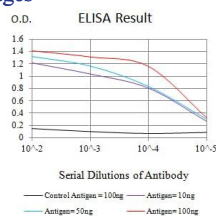
WB: 1:500 - 1:2000

FCM: 1:200 - 1:400

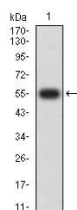
ELISA: 1:10000

Not yet tested in other applications.

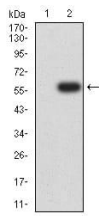
Images



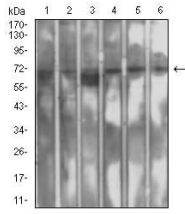
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



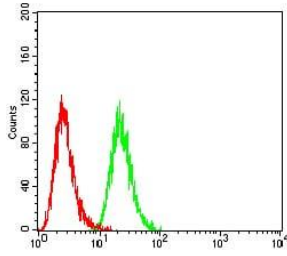
Western blot analysis using SETD7 mAb against human SETD7 (AA: 107-366) recombinant protein. (Expected MW is 55 kDa)



Western blot analysis using SETD7 mAb against HEK293 (1) and SETD7 (AA: 107-366)-hlgGFc transfected HEK293 (2) cell lysate.



Western blot analysis using SETD7 mouse mAb against MCF-7 (1), HeLa (2), A549 (3), COS7 (4), Jurkat (5), and PC-12 (6) cell lysate.



Flow cytometric analysis of HeLa cells using SETD7 mouse mAb (green) and negative control (red).

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

501 Changsheng S Rd, Nanhu Dist, Jiaxing, Zhejiang, China

Tel: 86 21 31007137 | E-mail: save@bt-laboratory.com | www.bt-laboratory.com